Xample

Air Navigation Desktop

User Manual

v 1.1

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Introduction

About Air Navigation

Thank you for your interest in Air Navigation.
Air Navigation was first developed as a real-time navigation application for iOS. It was quickly adopted by pilots of various flying vehicles including para-gliders, gliders, ultra-light, single and multiengine airplanes, helicopters and even hot-air balloons.
We decided then to continue improving the app and develop it for other operative systems, such as Android and MAC OS X.

Air Navigation Desktop is a complete flight-planning application with a varied use that will run under OS X. Amongst other uses, you will be able to plan your flight, print flight documents and synchronize routes with your mobile device.

Some of the possibilities Air Navigation Desktop offers are:
Create routes,
Create your own Aircraft and Pilot profiles,
Calculate weight, balance and fuel consumption,
Set minimum safe altitudes for each leg,
Set wind speed and direction for each leg,
Retrieve wind forecast from our weather server,
Check weather,
Check for NOTAM,
Print your flight plan,
Download maps of various providers (Official, non-official, Free sources),
Explore a database of more than 160.000 waypoints worldwide,
(including Airports, Helipads, Navaids, IFR waypoints, VFR waypoints),
Work with a database of interactive Airspaces for more than 70 countries,
Switch to the Synthetic Vision view (EFIS 3D module),
Sync your app with many other devices at the same time.

About this document

This document is intended to be a complete user manual. However, as new features are implemented often, brand new ones may be missing until they are added in a further release of this user guide.
You will find current document's version and the month of release on page 1.
The version of this document might differ from the actual version of the app, which can be higher.
If you have doubts or need assistance with a feature that is not described here, you can contact us through the link provided at the end of this manual.

Minimum requirements

Air Navigation Desktop will run on:

- A MAC computer with OSX 10.7 or higher running on it;
- 300 MB of available space for the application and databases;
- Approximately 350 MB of available space for each chart of the size of a country like France or Germany;

Disclaimer

Before using this software, you must read and agree with the following terms and conditions.

This software is not intended to replace a certified navigation device! We do not guarantee the accuracy and comprehensiveness of the information provided. The embedded navigation database is provided for informational purpose only. It may not be complete and may contain erroneous data.

You should always use official aeronautical documentation (AIP) when preparing and performing a flight. You should always use certified navigation devices when performing a flight. This software is provided 'as-is', without any express or implied warranty. In no event will the authors or third party data providers be held liable for any damages arising from the use of this software.

THE USE OF THIS FLIGHT PLANNING GUIDANCE APPLICATION IS AT YOUR SOLE RISK.

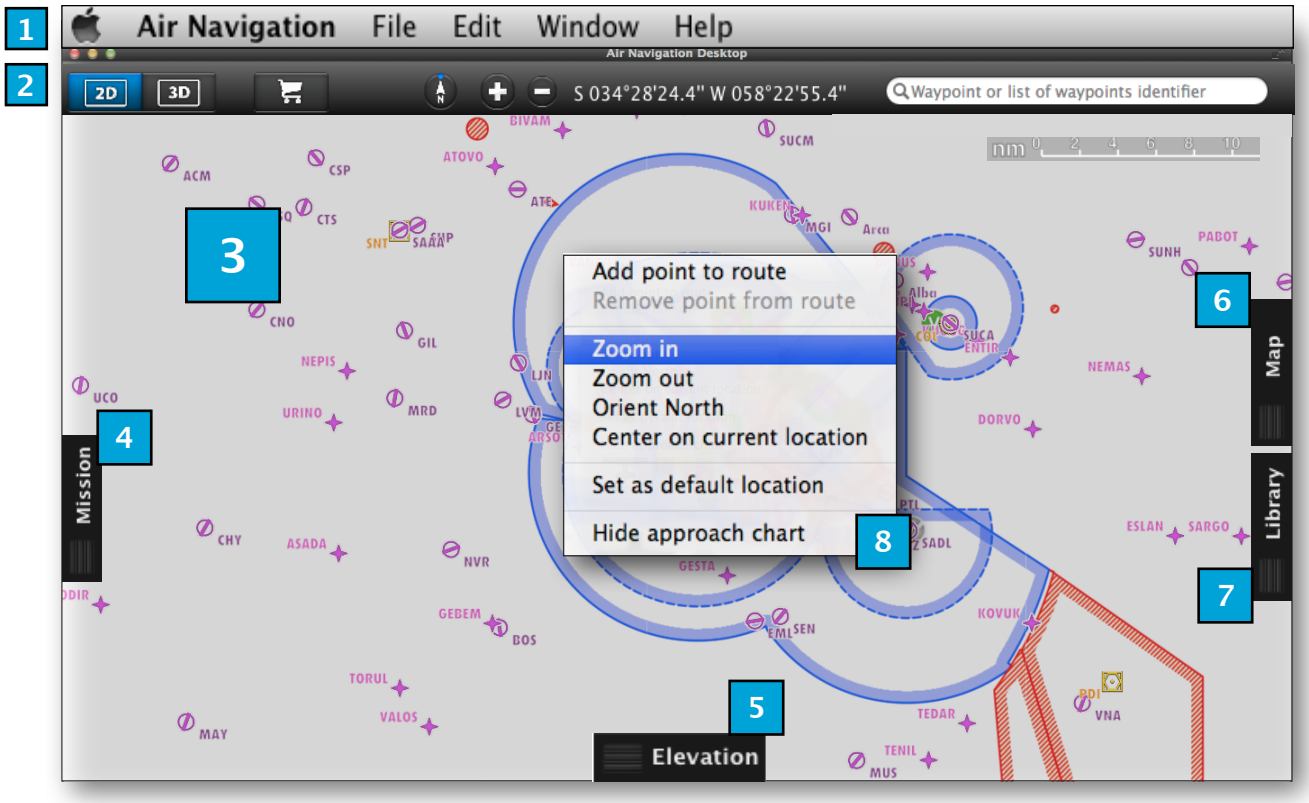
User interface

We will divide this chapter into many sections, describing on each one a single module of the user interface for Air Navigation Desktop.

Main screen

The main screen has the following parts:

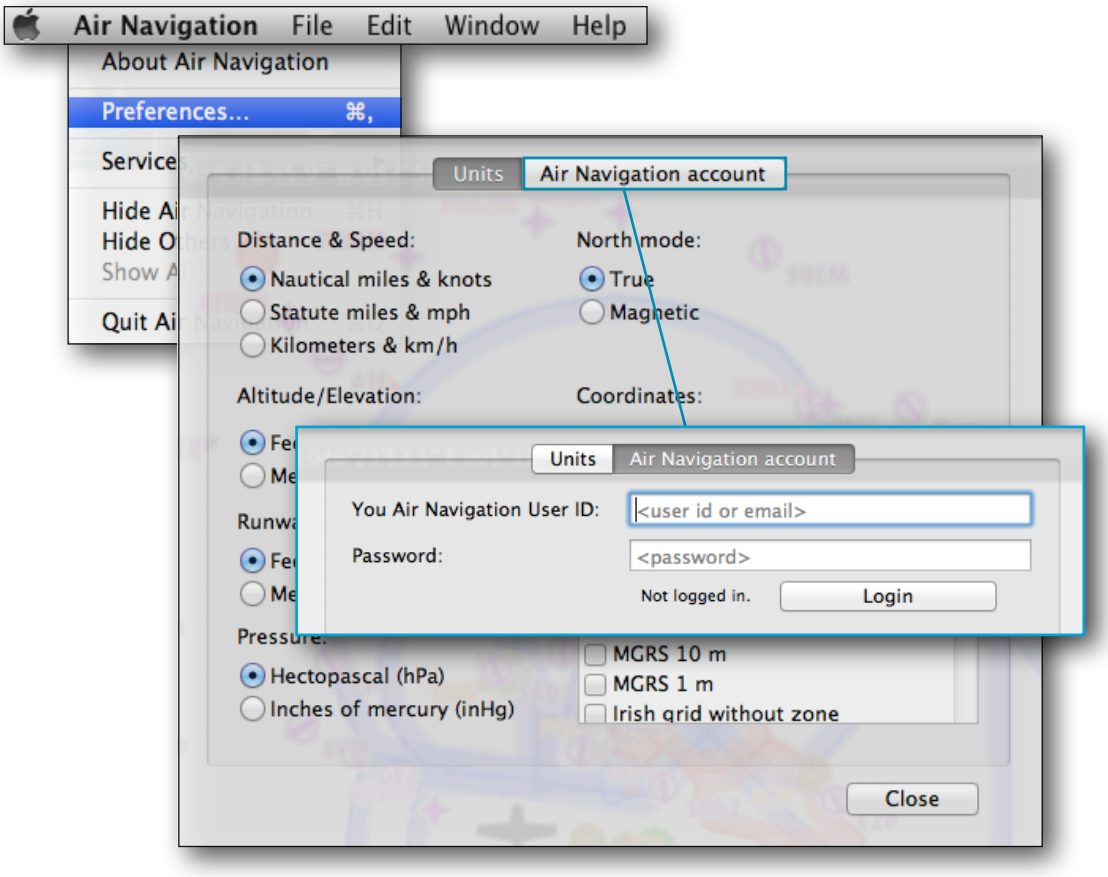
1. Menu bar
2. Top tool bar
3. Background map
4. Mission TAB
5. Elevation TAB
6. Map TAB
7. Library TAB
8. Quick-access tool menu (right click on the map)



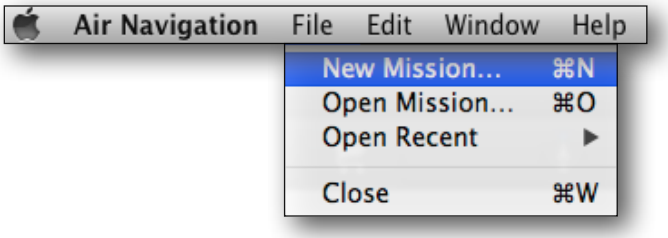
Go back to index

1.Menu bar

In the menu bar you will find the «**Preferences**» module where you can configure the units to be used and sync your Mac computer with your Xample Services account.



You will also have the option to Open or Create a new Mission under «**File**».



2.Top tool bar

The top tool bar allows to:

- Switch from 2D to 3D view
- Open the Map Store module
  (described later in this manual)
- Rotate the map
- Zoom in/out
- See the coordinates according to where the mouse is positioned on the map
- Search for a waypoint and jump to its location or add a waypoint to an existing route

> **TIP:** If you rotate the map and wish to go back to the north orientation, you can do it by double-clicking on the rotation bug.

3D view

The 3D view module is a useful tool that complements the Elevation graph when performing a flight plan. It uses a commercial-grade quality digital elevation model together with good quality satellite photos. The result is a very realistic representation of the world in 3D at a resolution of 15m per pixel (photos) and 90m grid for the elevation.

> ⚠ the 3D view comes with **no 3D data installed**. 3D data is available for purchase on a per-country or per-region basis in the Map Store.

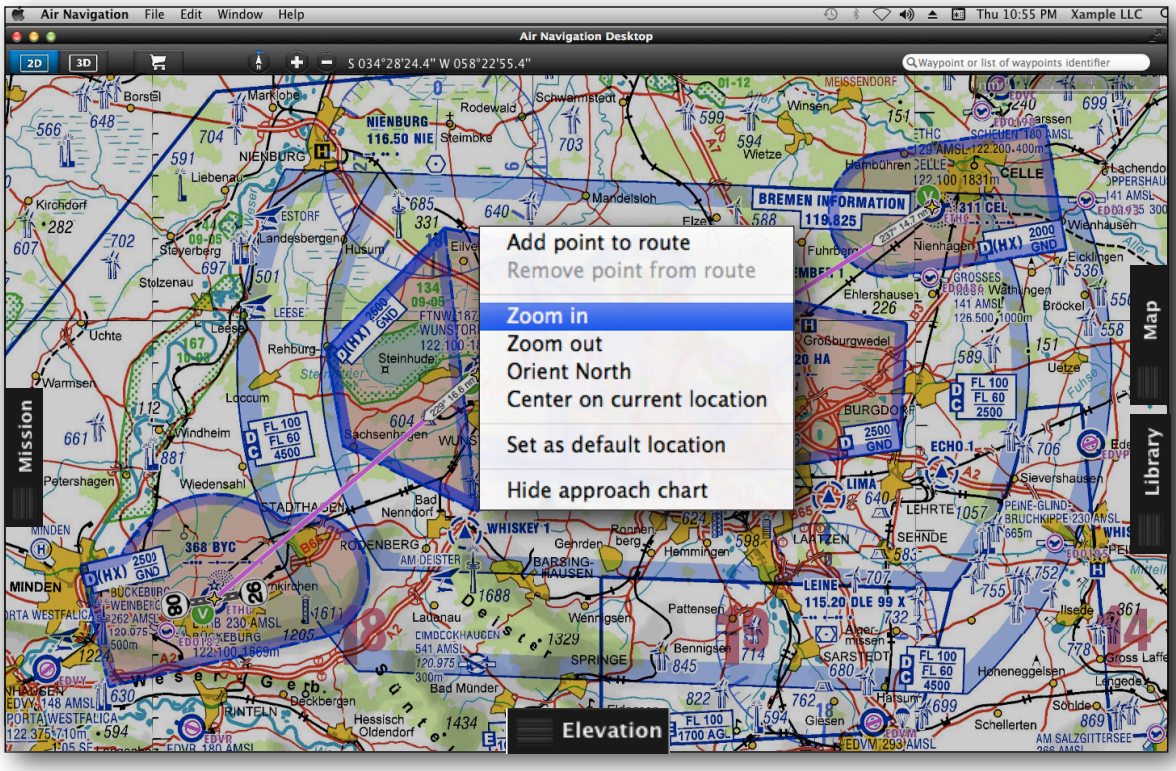
Compass

Altimeter

Use your mouse to look up or down in the view, move right or left to have a wider look of the terrain and use the **mouse wheel** to climb up or down.

3.Background map (moving map)

The background map is also known as the “moving map” and it will be our “place of work” for when flight-planning. We will focus on the bottom and side TABS later in this chapter.



TIP 1: quick access to additional options are possible by right-clicking on the moving map.

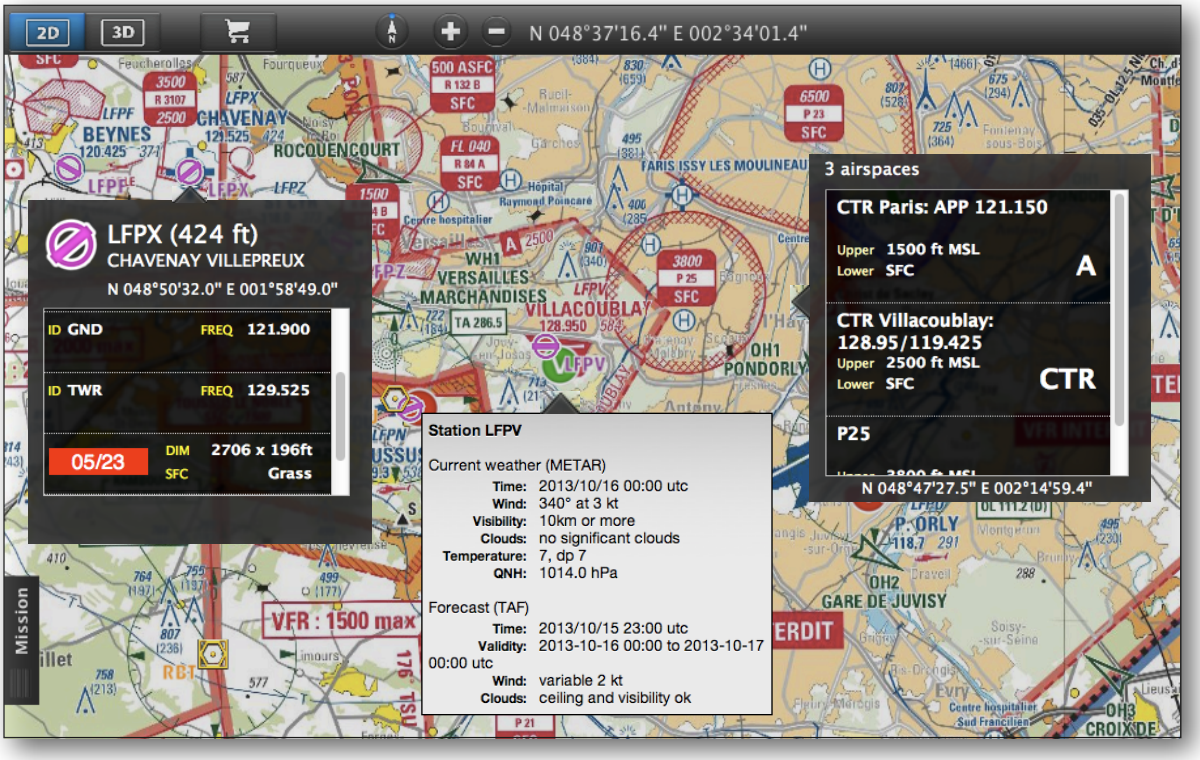
The moving map supports:

- Waypoints
- Airspaces
- Maps of different sources:
  Free ground maps
  ICAO charts
  Public domain maps
  Geo-referenced approach charts
- METAR/TAF Stations
- NOTAM info
- Obstacles

TIP 2: to get **frequent updates for waypoints/airspaces** you should subscribe for FREE to the database packages managed from your Xample Services account.

⚠ note that the map background comes with **no map installed**. You should download a map or maps from the Map Store module.

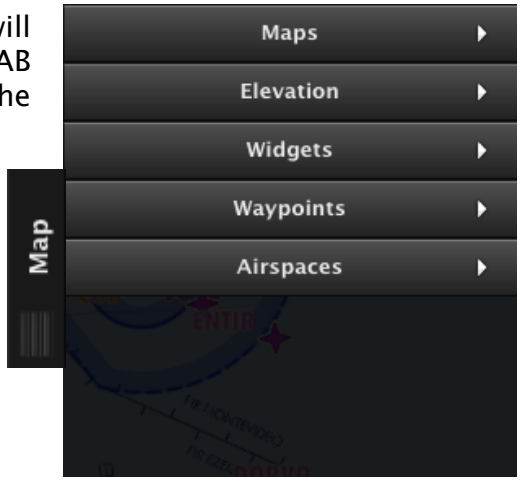
You can interact with most of the items on the moving map doing a click on each. As a consequence, a pop-up window will show on the screen with details about the item.



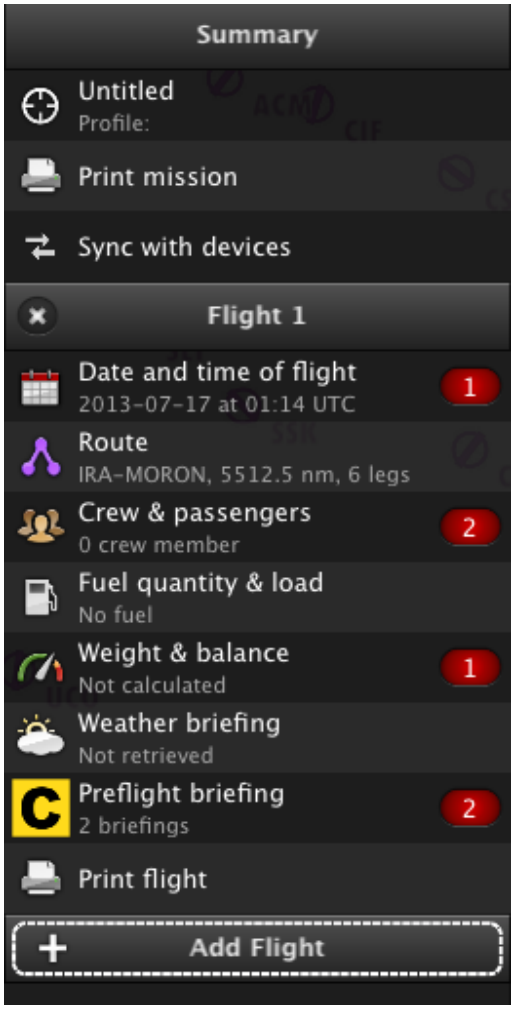
You can move along the moving map by panning the screen to a desired direction and a route can be created selecting the waypoints and adding them to the route list. There's a dedicated chapter later in this manual.

The map options and filters will be accessible from the Map TAB located on the right side of the screen.

For more details on how to use these filters, refer to the section **«Map TAB»** later in this chapter.



4.Mission TAB



The Mission TAB is a complete module for flight planning. This is where you will create, store and modify your flights details, including:

- Route legs
- Date and time
- Crew and passengers info
- Fuel quantity and load
- Weight and Balance
- Weather briefing
- NOTAM info

We will describe each of the modules above later in this document.

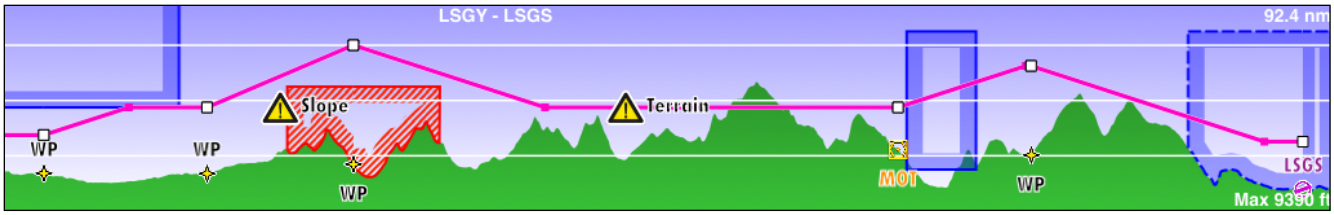
The Mission TAB also allows you to print your flights when they are planned.

TIP: you will be notified about possible issues if they are detected by Air Navigation Desktop. This is reflected as **red bubbles** on each of the modules of the TAB. See image above.

⚠ a mission can have **more than one** flight stored. You can either print a single flight or all the flights for a specific mission.

5.Elevation TAB

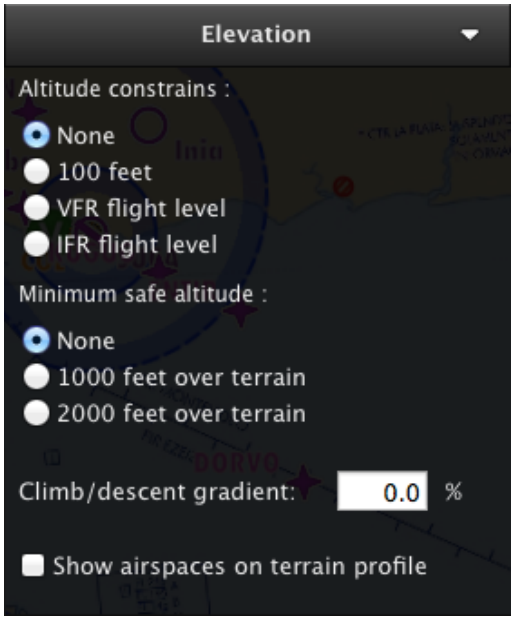
The Elevation TAB shows us the terrain profile throughout our created route. You can interact with the Elevation Graph and set the waypoints' intended overflight altitude, as well as **add mid waypoints** for each leg.



> ⚠ Elevation data must be **first downloaded** from the Map Store in order to display it in the graph.

You will click-on and drag a waypoint up or down in the Graph to set its desired overflight altitude.

> ⚠ you might experience some difficulties when trying to move the point up or down due to a restriction in the altitude levels. That can be configurable from the Map TAB. Read below.



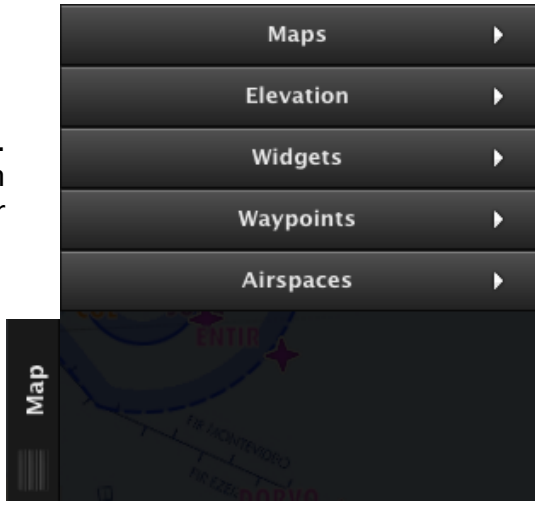
You can configure the altitude levels changing the Altitude constrains in the **Elevation module** within the **Map TAB**. The same applies for the limits of minimum safe altitude. If you wish to place the waypoints at any altitude without restrictions, set them both to **None**. Climb/descent gradient and Airspace display will be configured from this TAB, too, and it will allow computation of top of climb and top of descent.

> **TIP:** you can disable the altitude constrains pressing and holding the **ALT key** while moving a point in the Graph. You can disable minimum safe altitude pressing and holding the **SHIFT key**.

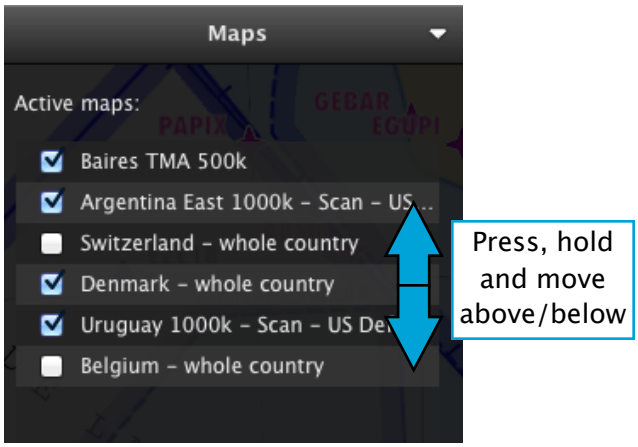
From this TAB you will also active or hide the Airspaces in the graph.

6.Map TAB

The map TAB has 5 modules:

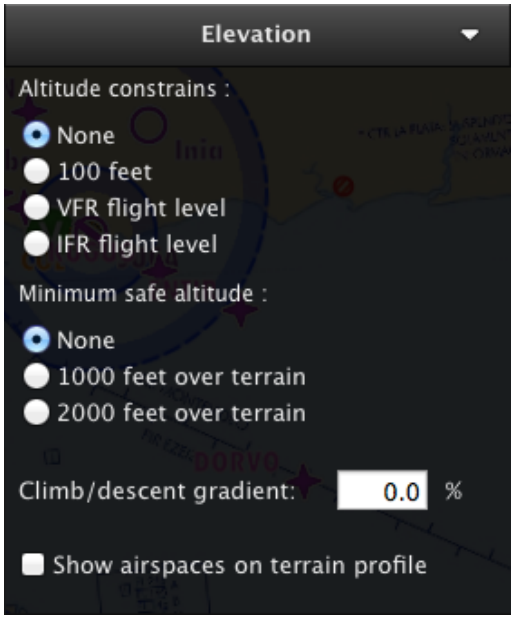


Maps
You will find all the downloaded maps here. Maps can be reorganized by placing them on top or below each other, you can enable or disable them as pleased.


Maps
Active maps:
Baires TMA 500k
Argentina East 1000k - Scan - US...
Switzerland - whole country
Denmark - whole country
Uruguay 1000k - Scan - US De
Belgium - whole country
Press, hold and move above/below

> ⚠ packages such as 3D data, Preflight briefing, Approach Charts and other subscriptions will not show in this module, but under **«My products»** section of the Map Store module.

Elevation
The settings for the Elevation TAB can be found here. Altitude constrains, minimum safe altitude and climb/descent gradient are the options available.
You can also show/hide Airspaces in the Elevation Graph from this module.



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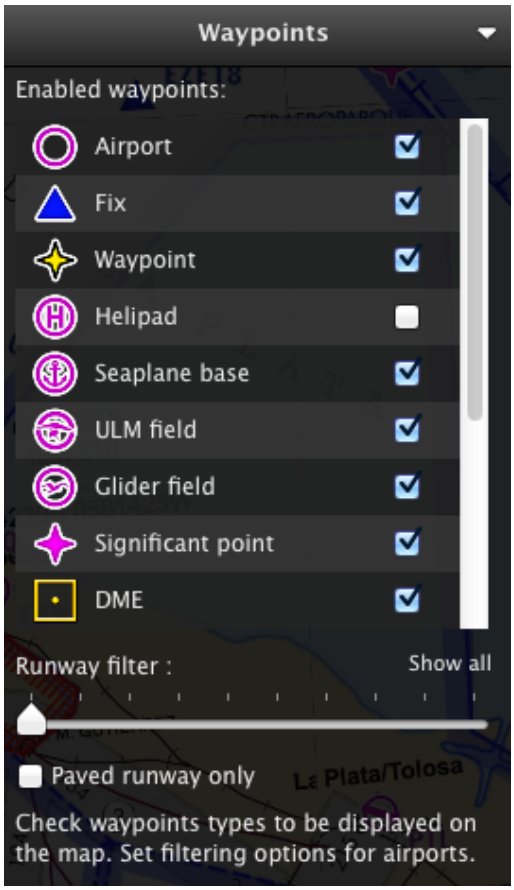
Widgets

Various features can be enabled from here, that will be displayed on the moving map:
METAR stations
NOTAM info
Runway extensions
Labels of distance/course on leg vectors
Map of Obstacles

> ⚠ NOTAMs and Obstacles are paid subscriptions and shall be purchased from your Xample Services account.

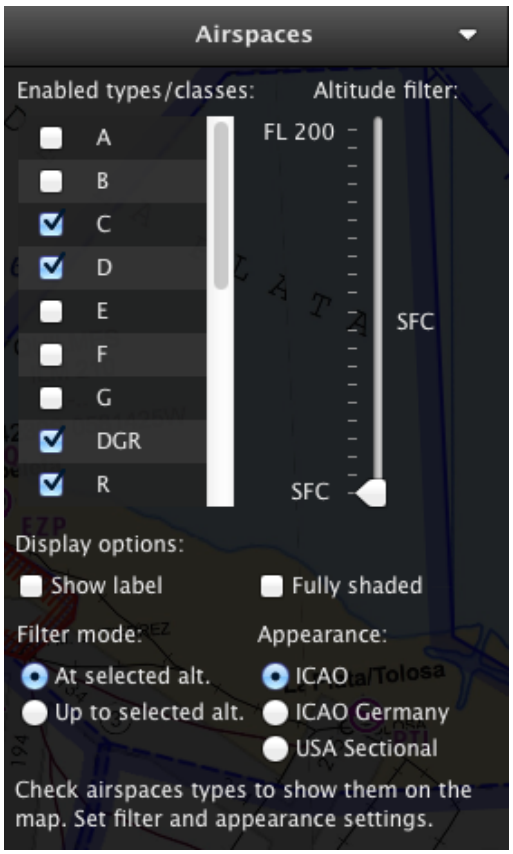
Waypoints



In this module, you can filter, show or hide different types of waypoints to be displayed in the map, including:
Airport
Fix (Visual Reporting Point)
User Waypoint (waypoint created by the user)
Helipad
Seaplane base
ULM field
Glider field
Significant point (IFR waypoint)
DME
NDB
VOR
NDB DME
VOR DME
TACAN
VORTAC

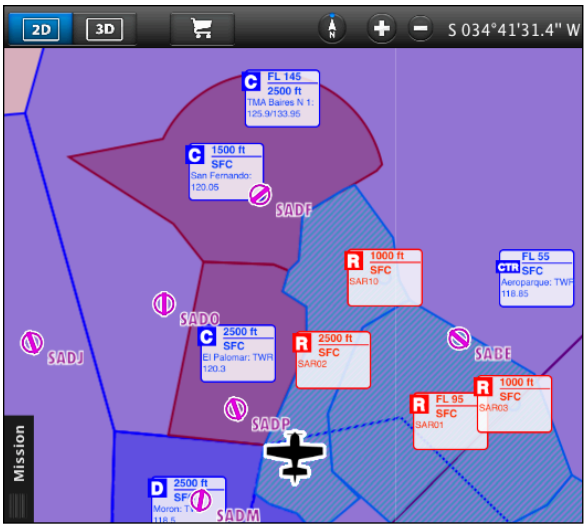
For Airfields, it is also possible to filter by Runway length and surface type.

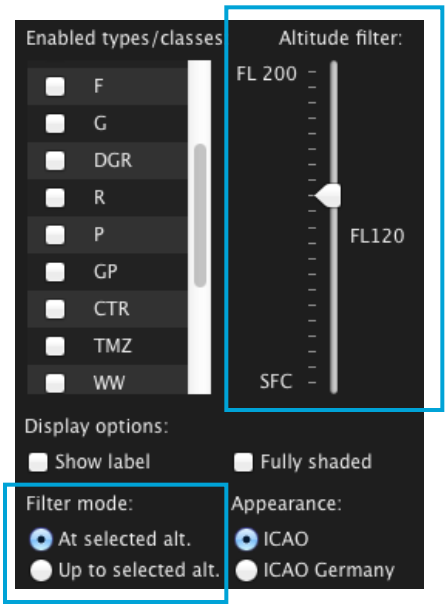
Airspaces



A bunch of varied filters and options are available in this module:
Airspace Class filter: A, B, C, D, E, F, G, Danger (DGR), Restricted (R), Prohibited (P), Glider Prohibited (GP), Glider (WW), TSA, TRA, MATZ (MIL). Recreational (RCT), Nature Reserve (NR), FIR.
Airspace Altitude filter
Airspace Appearance selection

There's also options to display the Airspaces fully-shaded and show a window label with information about them.



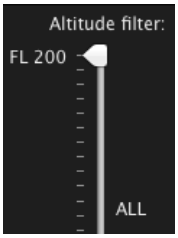


In order to correctly configure the Airspace altitude filters, you should take into account both the **Altitude filter** and the **Filter mode**.

The example on the left shows the altitude filter set to FL120, and the filter mode set to "At selected altitude". This means that the map will only show Airspaces which have vertical limits within FL120.

If you change the filter mode to "Up to selected altitude" the map will show ALL the Airspaces from the surface up to FL120.

To display ALL Airspaces, you will set the altitude filter to FL200 like in the image on the right.



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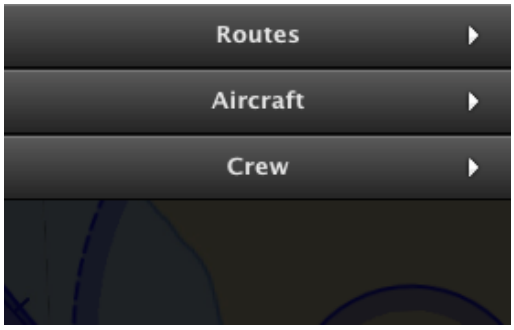
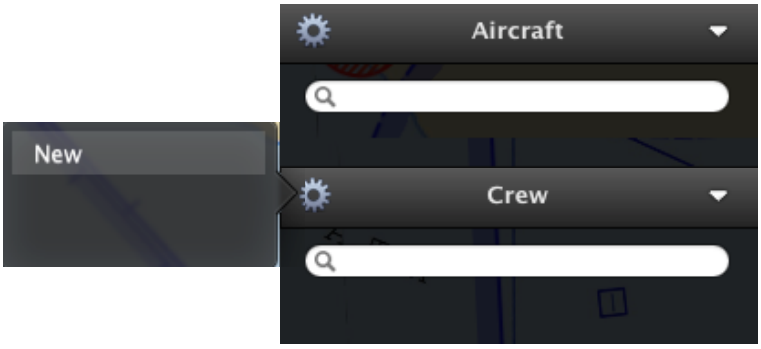
7.Library TAB



In this TAB you will create, modify, delete and store items that you wish to reuse:
Routes
Aircraft profiles
Crew profiles

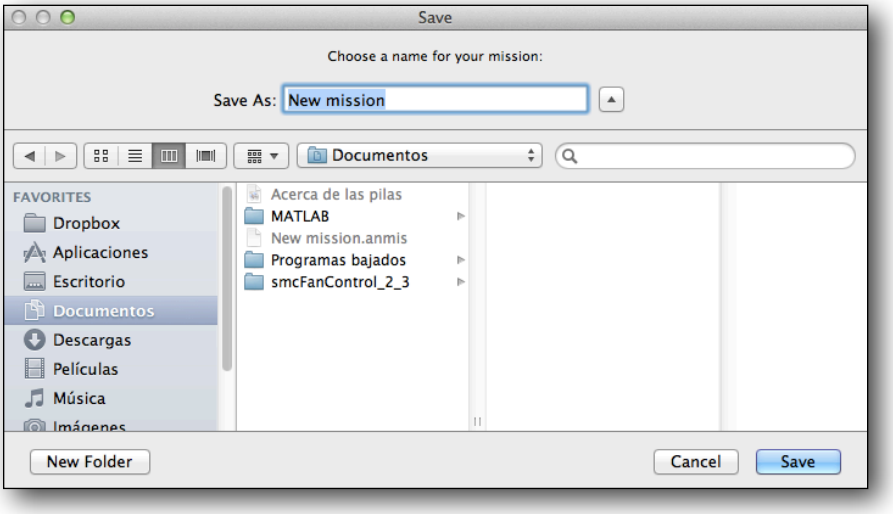
You can create one or more Aircraft profiles through the Aircraft module. Crew members will be added through the Crew module. The picture below shows how to do it.



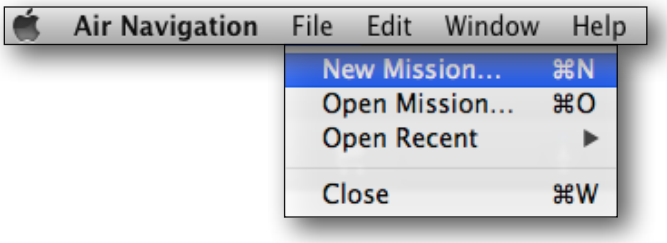
Getting started

Create a new mission

When you first launch Air Navigation Desktop, you will be asked to save a new mission in a folder of your Mac computer.



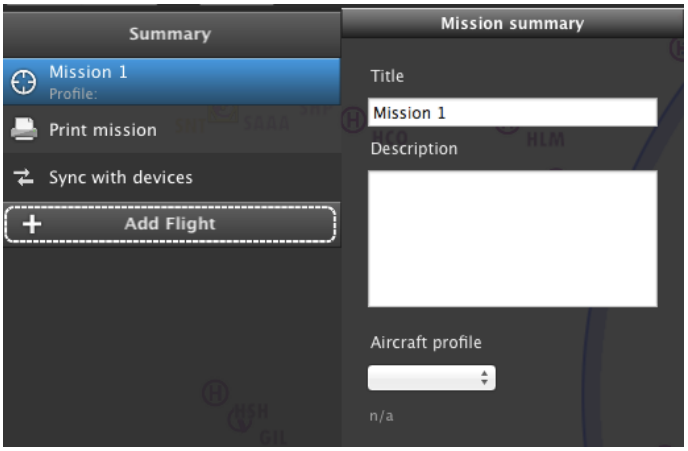
TIP: to **delete** a mission, simply eliminate the file from the folder.



Shall you wish to create a new one by yourself, you should do it from the **«File»** top menu.

From the Mission TAB you will write the name of the mission and choose the Aircraft profile once it is created.

You will also create one or more flights clicking on the “Add Flight” button.

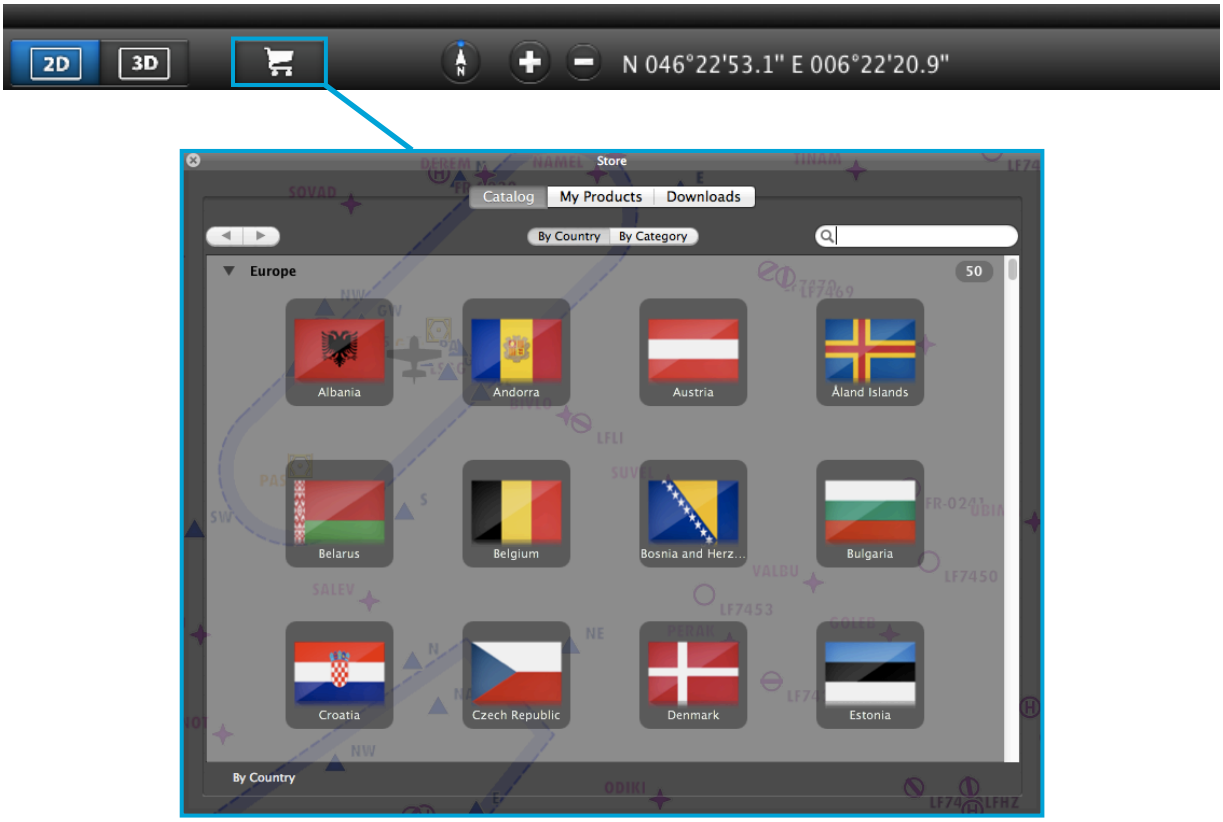


Install maps and products

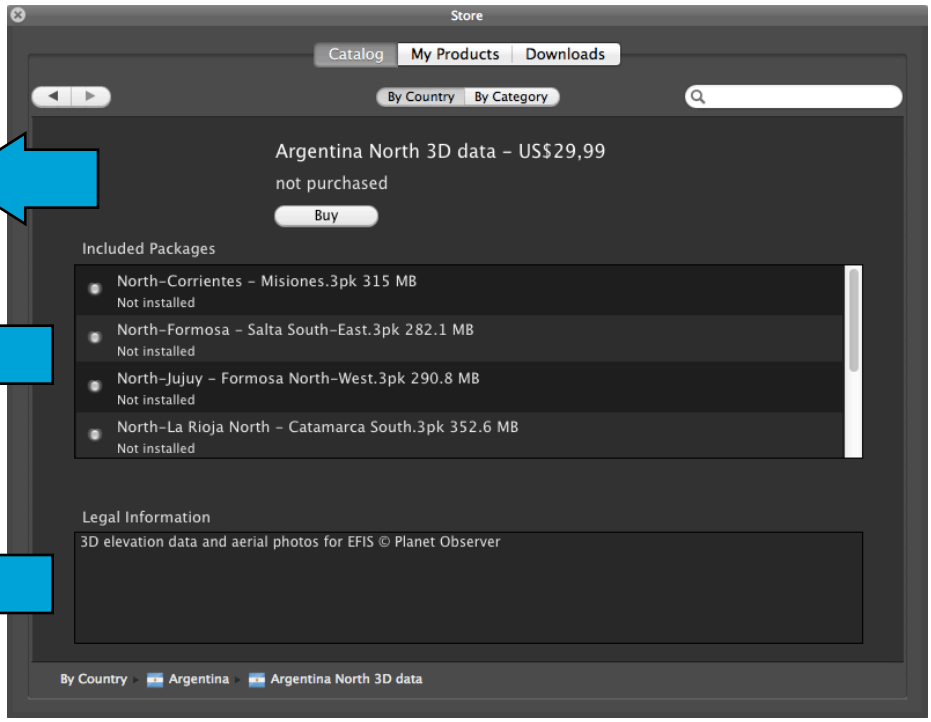
The Map Store module is reachable from the top tool bar by clicking on the button with the **“cart”** symbol. Varied types of products can be downloaded:
Free maps and topo charts
ICAO charts
Geo-referenced Approach Charts
3D data
Obstacles map
Free Waypoints + Airspaces database

Some of them are offered for free and some others can be purchased directly from the Map Sore or belong to an annual subscription.
To learn how to subscribe to Approach Charts, Free databases and Obstacles packages, please read the chapter «Xample Services User Account».

> ⚠ If you **already purchased maps** and other products and wish to use them with Air Nav Desktop, you should refer to the chapter «Synchronize purchased maps/products».



Each map or product is presented with details in the Map Store when they are selected. They can be divided in many parts depending on how big the country or covered area is. The parts can be installed separately pressing on a desired file or all at the same time by pressing on the **«download»** button.

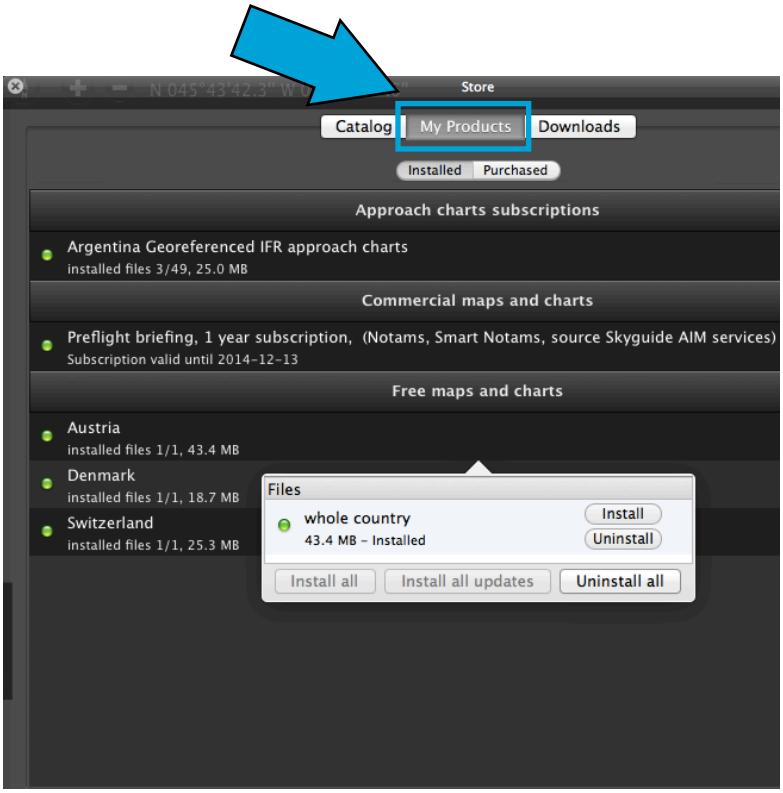


- Map/Product name + price
- Purchase/download button

Product files

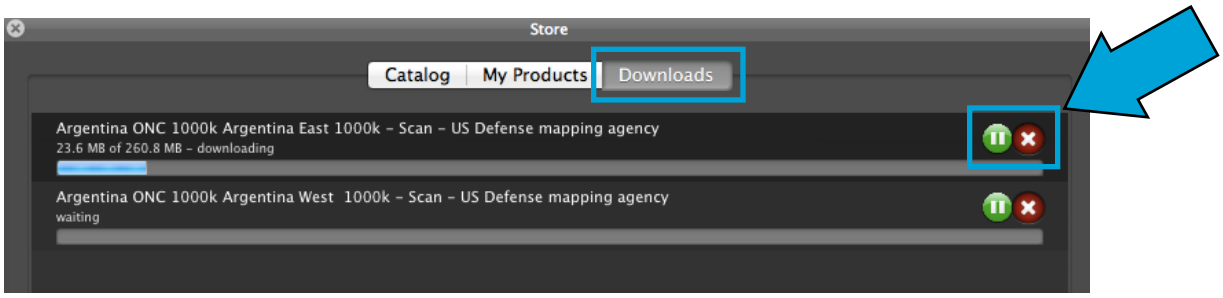
Info about the product (source, provider, map version, etc)

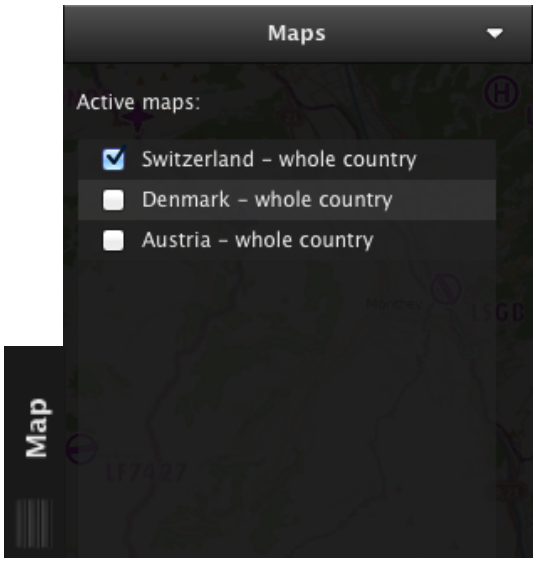
The downloaded products will show under **«My Products»** as described in the screenshot beside.



TIP: A map or product can be **uninstalled** totally or partially from this part of the Map Store.

To pause, check progress or cancel the download you will use the buttons on the right side of the product in the section **«Downloads»** of the Map Store module.


Store
Catalog
My Products
Downloads
Argentina ONC 1000k Argentina East 1000k - Scan - US Defense mapping agency
23.6 MB of 260.8 MB - downloading
Argentina ONC 1000k Argentina West 1000k - Scan - US Defense mapping agency
waiting

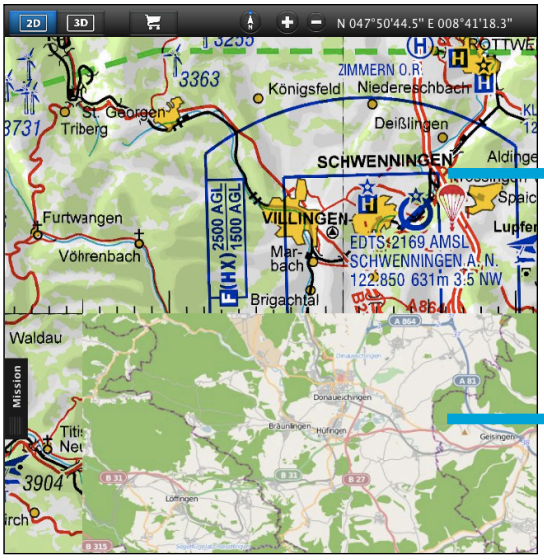


Downloaded Maps will be displayed on a list in the **«Maps»** module within the Map TAB.
Make sure to active the maps you will use for flight planning.

In the example beside, only the Swiss map is active and it will be open in the background, while the rest will not.

The maps in the list can be also reordered by placing each of them above or below the others.

TIP: there are two possible solutions for when maps of neighbor countries are **overlaying**. You can disable the map you do not use or you can place it below the one you wish to show entire.



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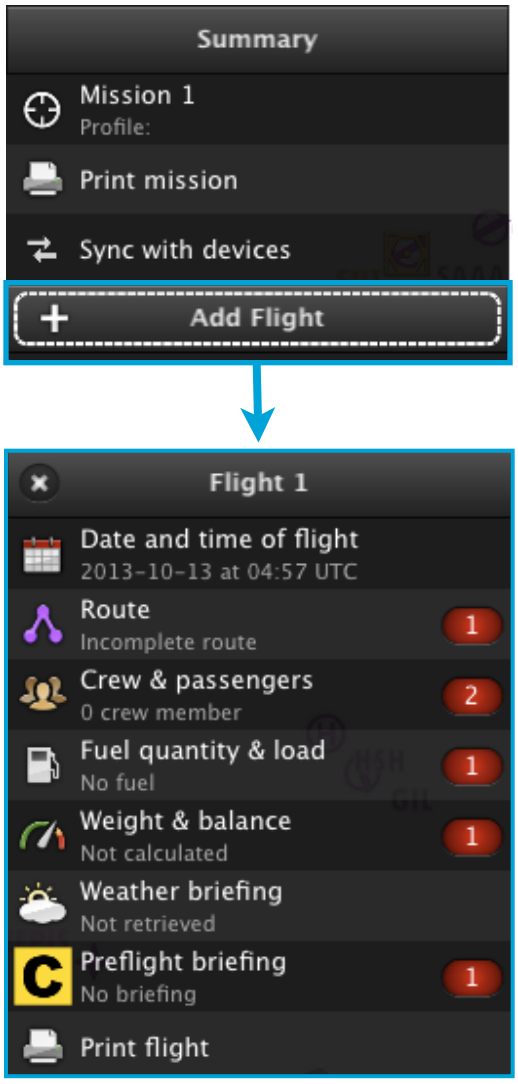
Create a new flight

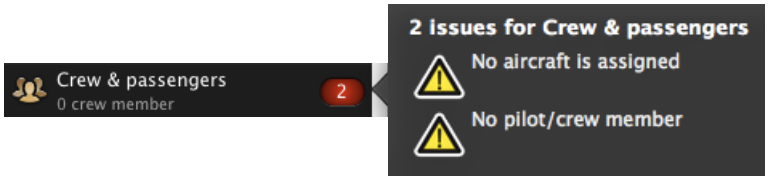


From the Mission TAB, a new flight will be created through the button **«Add Flight»**.

Several flights can be created for 1 single mission.

The flight module is divided into 8 parts that we will describe in more detail later in this manual.

The red bubbles with numbers are warning messages pointing out that specific information or data has not been correctly configured, completed or it is simply missing. To find out what the messages say, simply click on the bubbles.

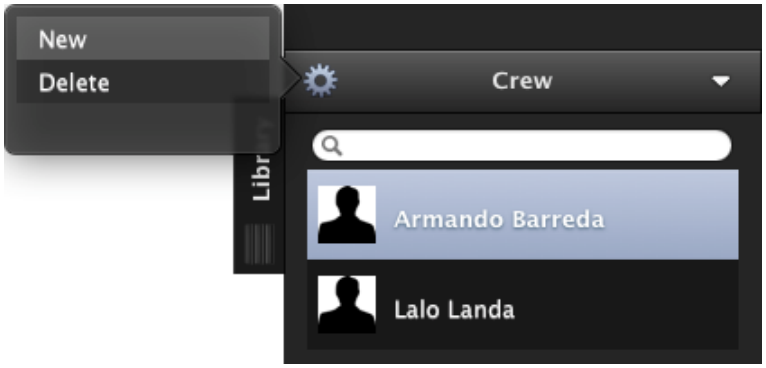


⚠ Before creating a route, we **HIGHLY recommend** it as first step adding crew and an aircraft profile to the mission. It is described on next chapter.

Add crew + Aircraft profile

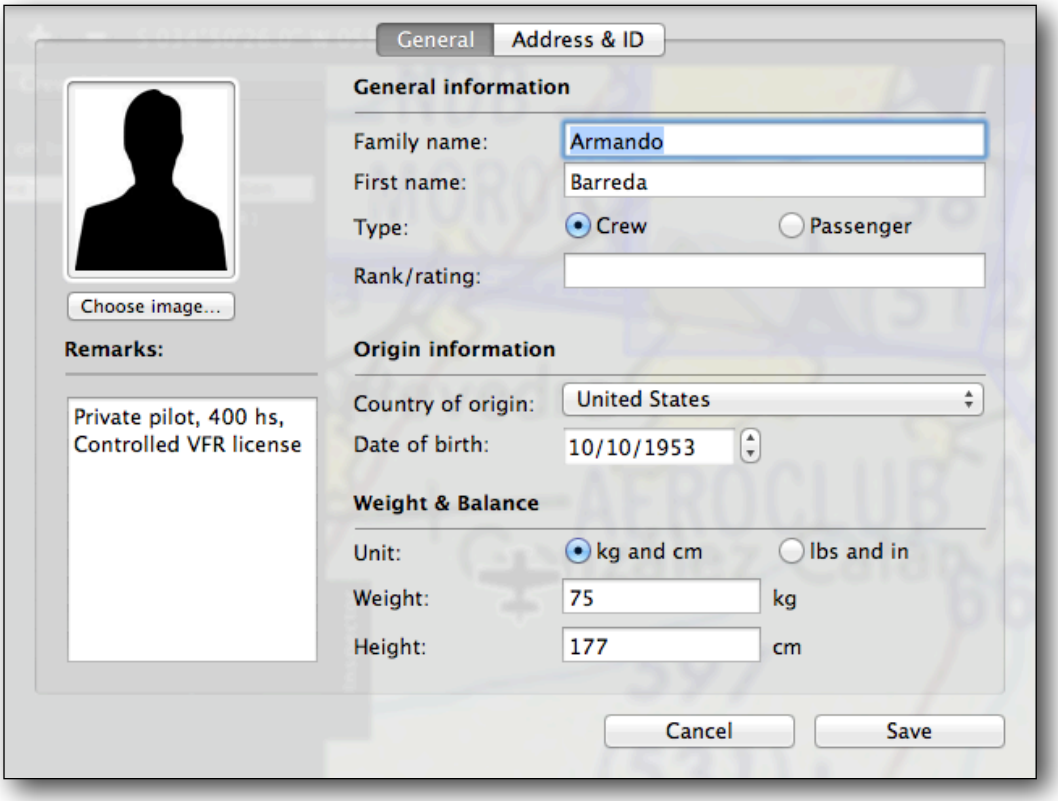
Both the crew and the Aircraft profiles will be added through the **Library TAB**.

On the upper left corner of the **«Crew»** module there is a circled symbol to add a new member of a crew. They will all be ordered on a list.



TIP: in order to **eliminate** a member, you will choose it from the list and then select the «delete» button from the top left.

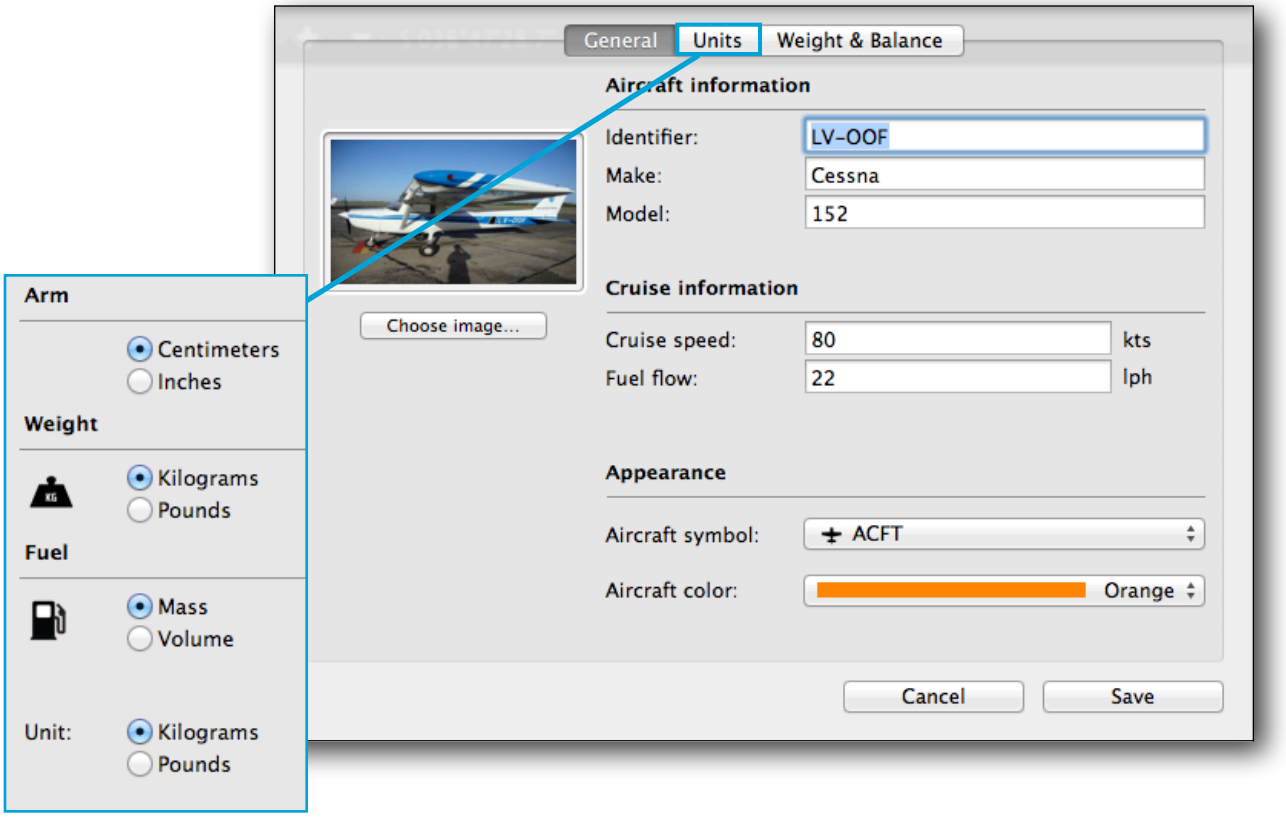
Details, relevant information and remarks about a member can be edited double-clicking on it in the list. The form will show like the one below.



On the upper left corner of the **«Aircraft»** module there is a circled symbol to add a new Aircraft profile. They will all be ordered on a list**.**

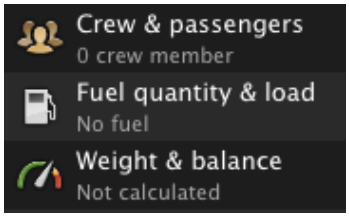
TIP: in order to **eliminate** an aircraft profile, you will choose it from the list and then select the «delete» button from the top left.

It is very important to complete the Cruise information fields and the Weight and Balance module with data taken from the **operative manual of the aircraft**. This should be done before the flight planning so that further calculations are correct.
Units can be configured from the **«Units»** section of the profile window. See the image below.



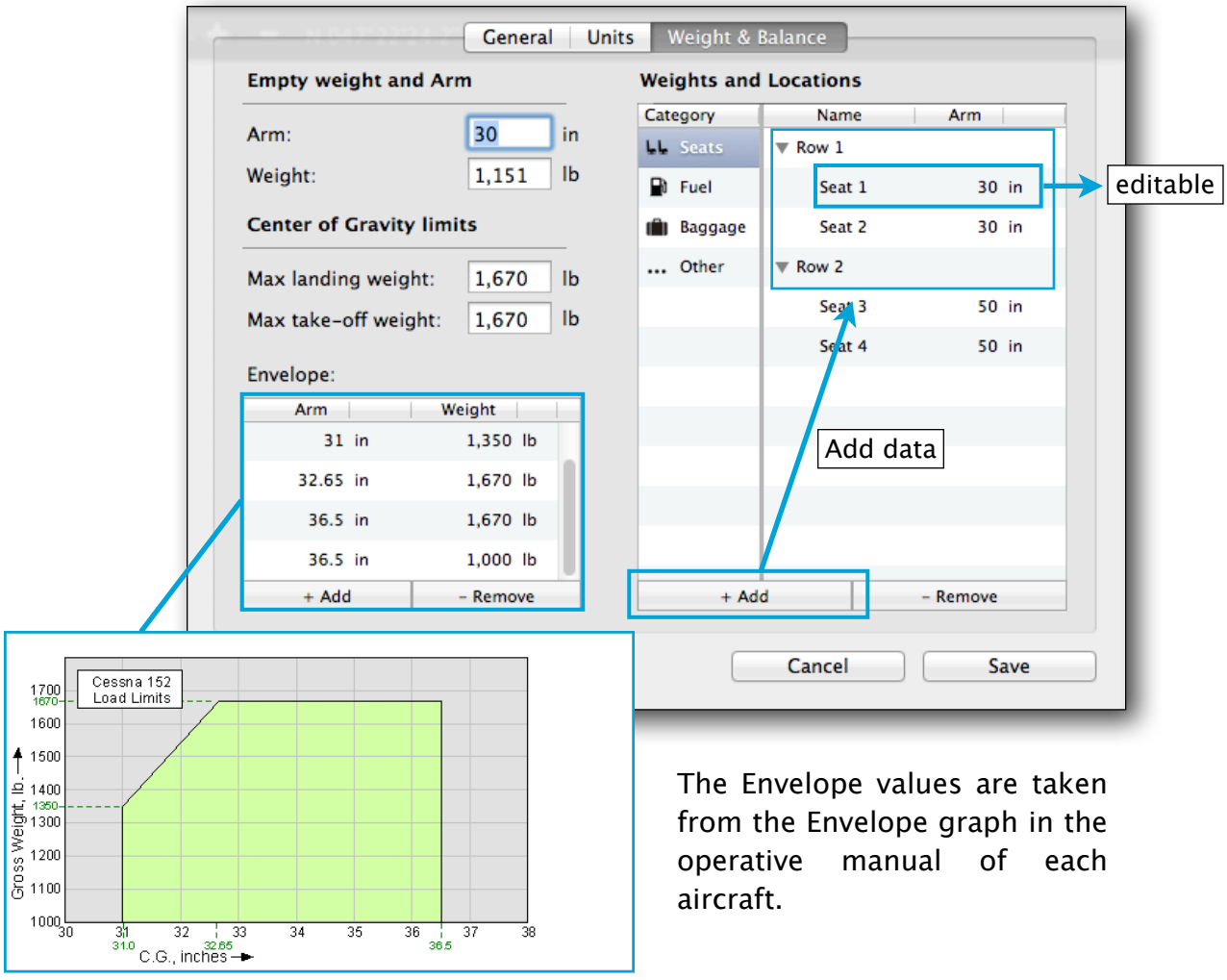
Complete the Weight and Balance module

The Weight and Balance module **will allow** you to make use of the following tools when flight planning:



This is why it is so important to carefully complete this module with all the required data.

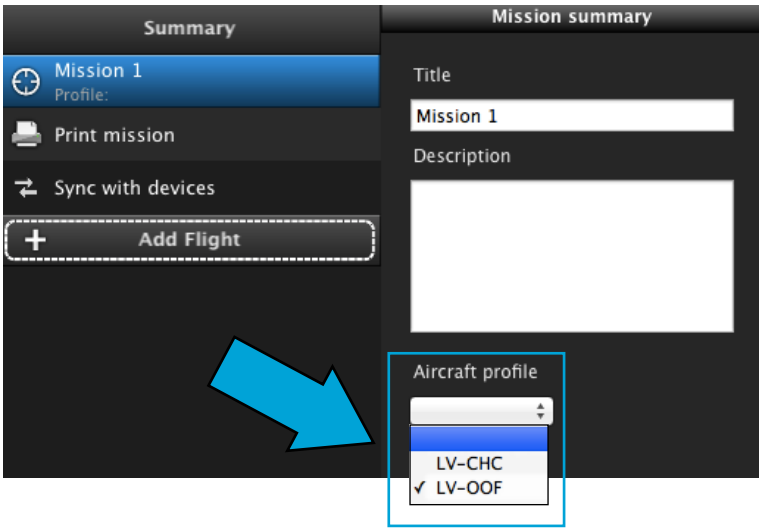
> ⚠ It is necessary to have the **aircraft operative manual** to complete this module.



The Envelope values are taken from the Envelope graph in the operative manual of each aircraft.

Assign an Aircraft profile to a mission

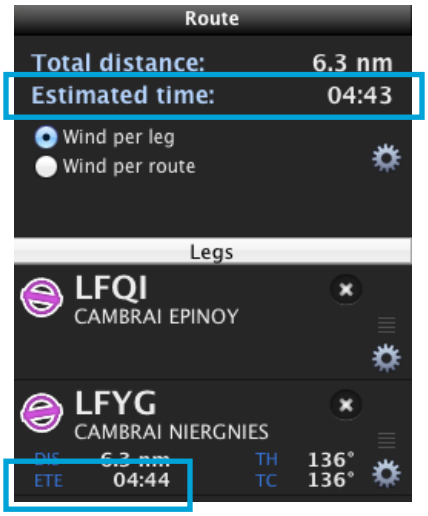
An Aircraft profile is assigned to the mission through the Mission TAB as the image shows on the right.



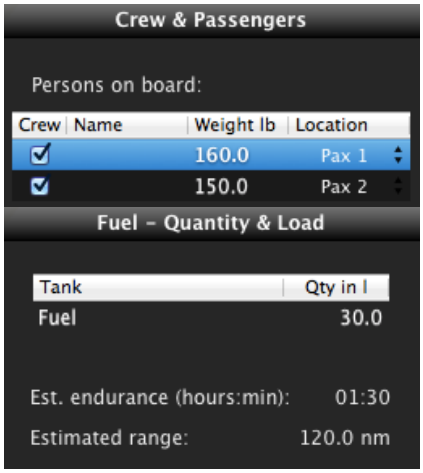
> you must first **create** the aircraft profile through the Library TAB.

> **TIP:** if you want to assign a different Aircraft to a second flight, you cannot do it in the same Mission, but **create a new one**.

The importance of assigning a profile:

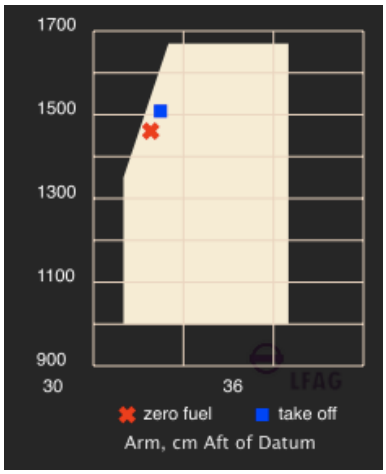


It is needed to calculate the estimated times for the total distance of a route and per each leg, too.


Crew & Passengers
Persons on board:
Crew | Name | Weight lb | Location
160.0 Pax 1
150.0 Pax 2
Fuel - Quantity & Load
Tank | Qty in l
Fuel 30.0
Est. endurance (hours:min): 01:30
Estimated range: 120.0 nm

The crew and fuel quantity will be editable only if the Weight and Balance module was completed in the profile.

The Weigh and Balance information entered by the user will be computed together with crew and fuel values to finally generate a graph.



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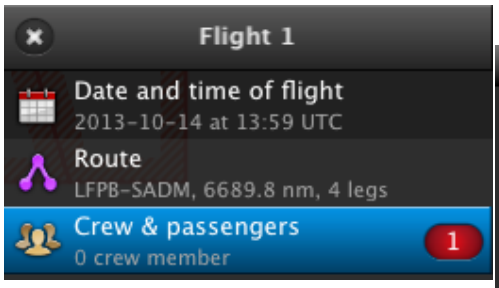
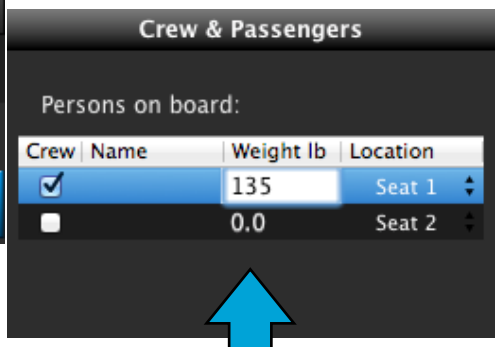
Assign crew to a flight

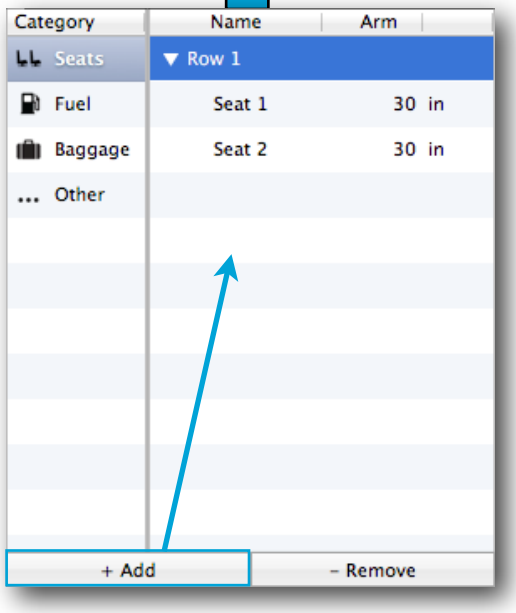
You will assign crew to a flight so that Air Nav Desktop can then compute the values with the ones from the fuel quantity and Aircraft profile to finally calculate weight and balance.

Through the Mission TAB, crew members & passengers can be added.

> ⚠ you must first **create** the aircraft profile through the Library TAB and then assign it to the flight.







> **TIP:** the **number of members** appearing in the «crew & passengers» module depends on how many you add in the Aircraft profile, under the Weight and Balance section.

Flight planning

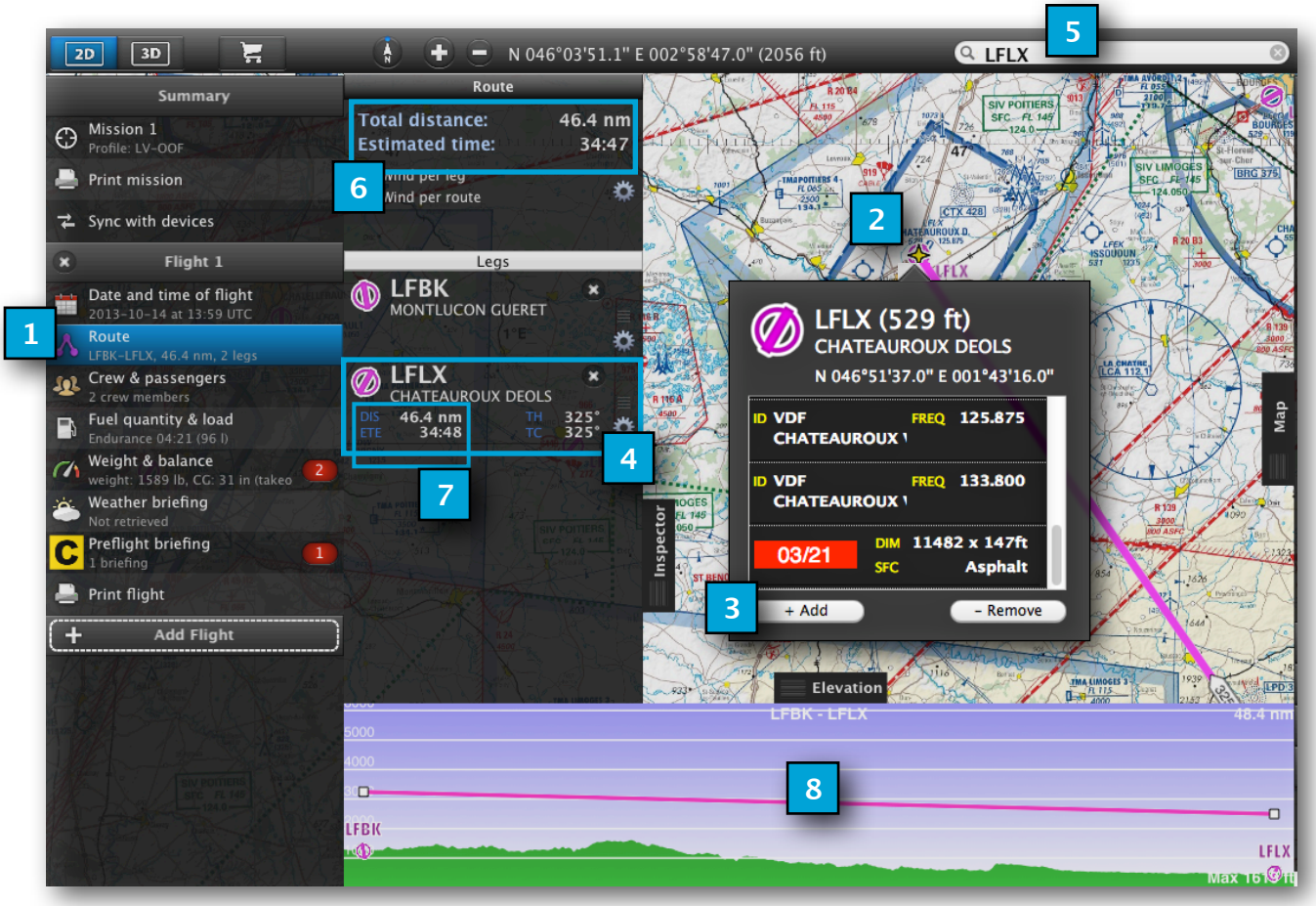
Create a route

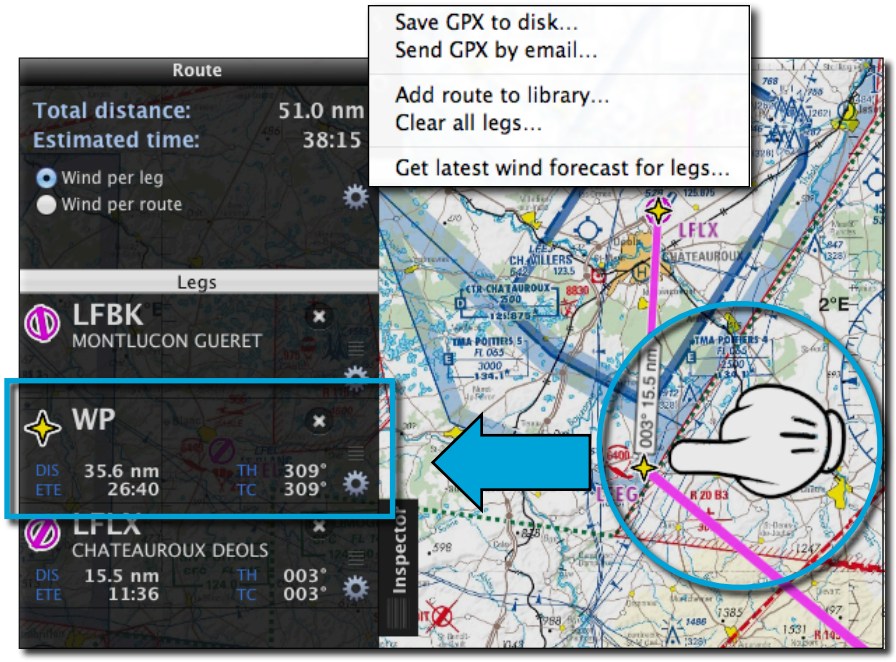
Here's the recommended steps to create a route in Air Nav Desktop:

1. Within the Mission TAB, select the Route module
2. Choose a waypoint from the map that you wish to add to the route
3. Click on **«Add»** button from the popup window
4. The waypoint will be added to the Route list
5. As an alternative, you can add a waypoint to the route through the search field
6. Total distance and estimated time shows on the top of the Route module
7. Partial distance and estimated times per leg show on each waypoint
8. The route will be also represented in the Elevation graph

⚠ the Elevation graph will show terrain only if the elevation data has been downloaded.

⚠ estimated times will show as long as the cruise speed is set in the Aircraft profile.

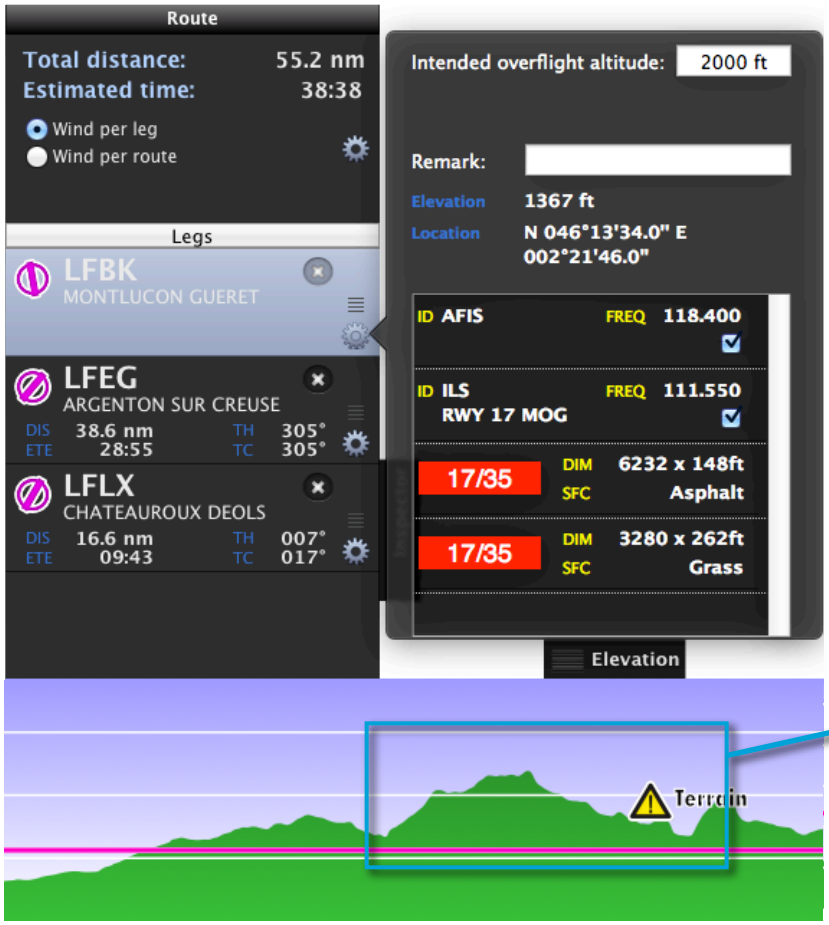




From the top, there's a menu available with these options:

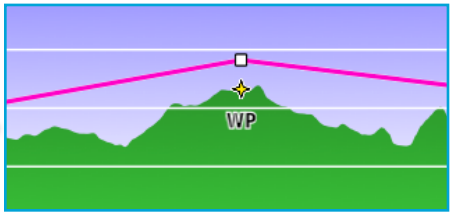
- Save as GPX file to disc
- Send GPX file by Email
- Add route to the Library TAB
- Clear route
- Get latest wind forecast

You can add mid waypoints to a route using the mouse to press, hold and move the leg to a position in the map.



You can have access to a window with info for each waypoint in the Route module. Remarks can be added there and the intended overflight altitude can be set, too.

TIP: mid waypoints can be added directly in the **Elevation Graph** clicking on the position of interest. This is useful to avoid high peaks and obstacles along the created route.



⚠ levels restrictions are set from Map TAB > Elevation module.

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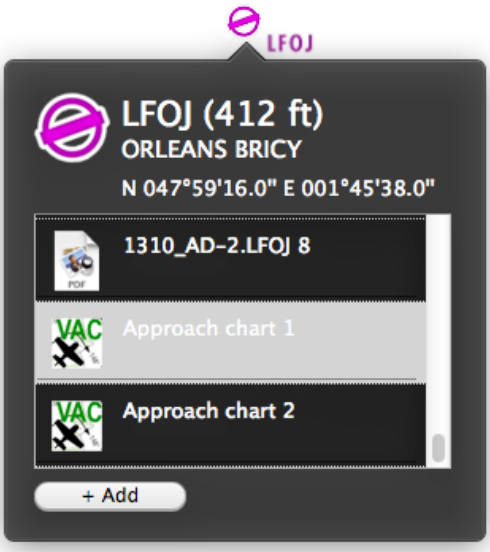
Geo-referenced approach charts

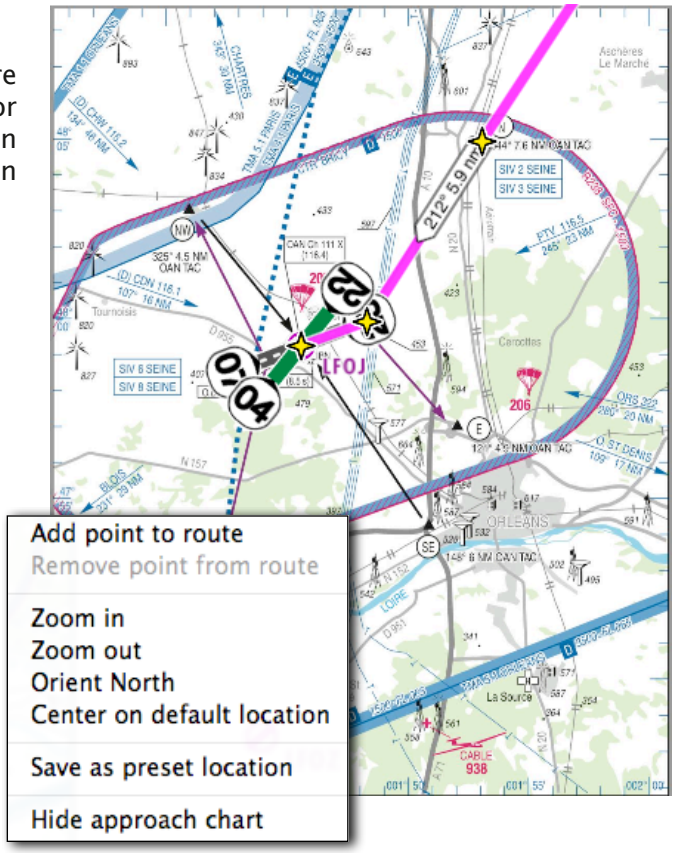


As a complement, Air Nav Desktop supports geo-referenced approach charts.

> ⚠ geo-referenced approach charts are paid subscriptions and shall be purchased from your Xample Services account.

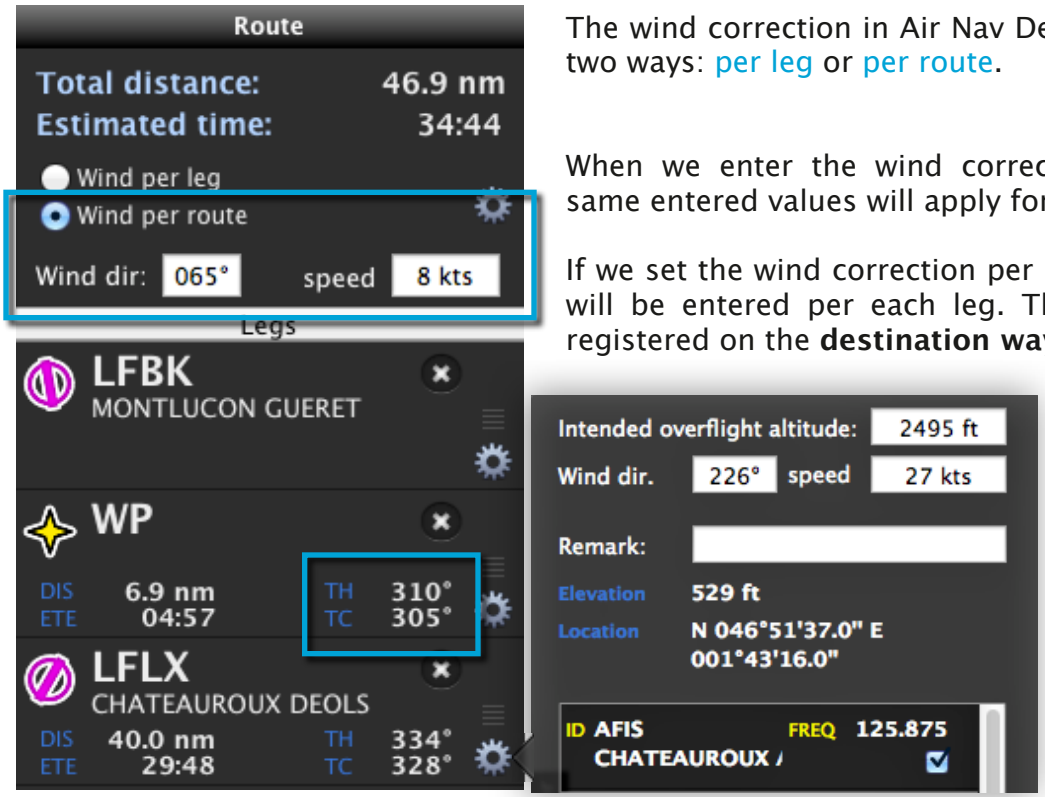
The approach chart can be opened as a PDF document and printed out as well. Or it can be displayed on the map to better plan the route. In both cases, you will **select them in the info window** of the Airport waypoint.

Here's an example where an approach chart for the Airport LFOJ is open and geo-referenced on the moving map.



TIP: you will right-click on the moving map and select **«Hide approach chart»** from the pop-up window to remove the chart from the screen.

Wind correction



The wind correction in Air Nav Desktop can be set in two ways: per leg or per route.

When we enter the wind correction per route the same entered values will apply for all legs.

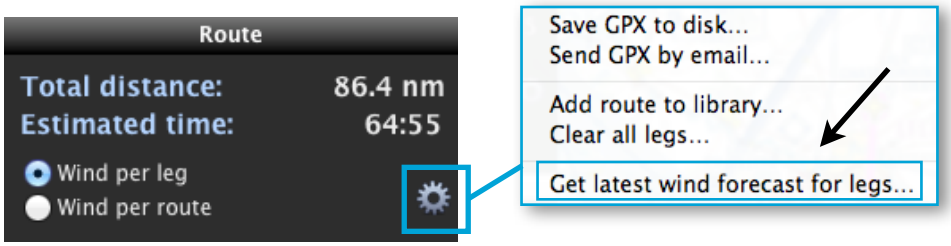
If we set the wind correction per leg, different values will be entered per each leg. These values will be registered on the **destination waypoint** of the leg.

Example: In the current route of the image, the wind correction for the leg LFBK-WP will be entered for the WP waypoint.
The wind correction for the leg WP-LFLX will be entered for the LFLX waypoint.

The wind correction will show us the difference between heading and course that will be reflected for each waypoint in the route module, as follows:
MH (magnetic heading)
MC (magnetic course)
TH (true heading)
TC (true course)

In the example above, we show the true values.

⚠ values are configured from the «**Preferences**» module.



TIP: If you do not know the wind data per leg, you can use the forecast option from the top menu of the module.

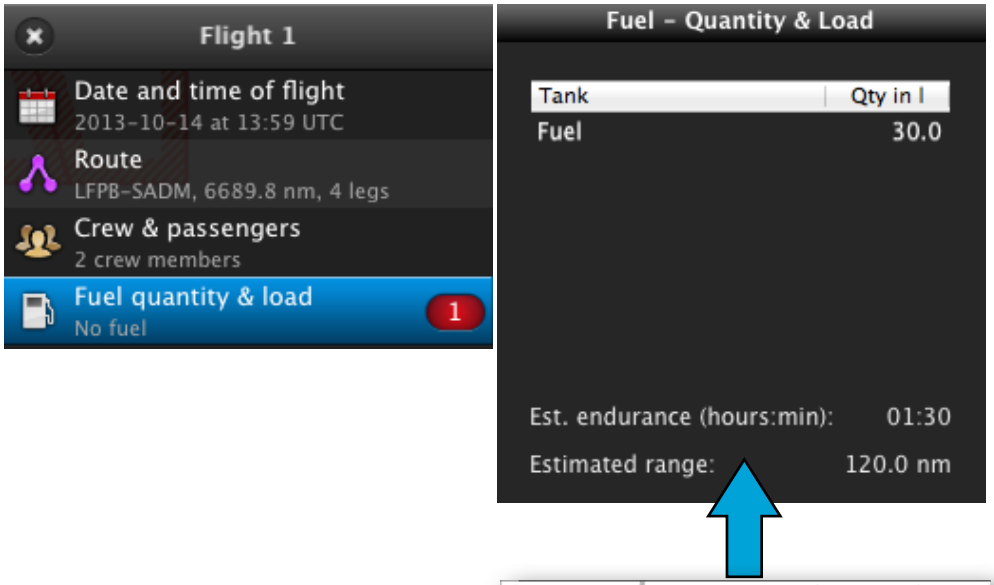
Add fuel quantity

Air Nav Desktop will compute the fuel quantity values as follows:

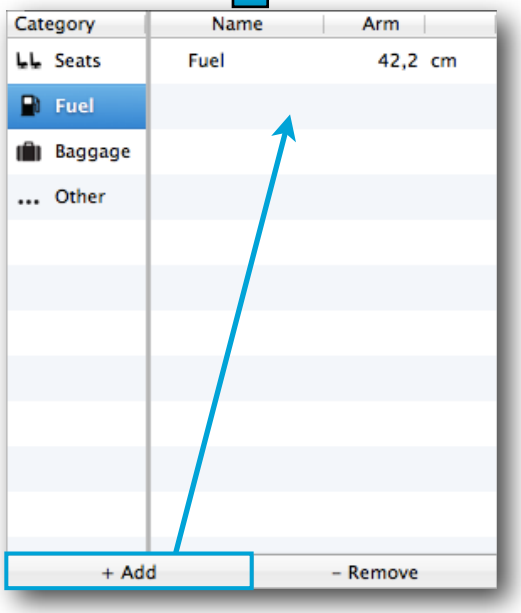
- with crew members and Aircraft profile values to calculate weight and balance
- with Aircraft profile values to calculate estimated times in the Route module

Through the Mission TAB, fuel quantity can be added.

> ⚠ you must first **create** the aircraft profile through the Library TAB and then assign it to the flight.



The fuel tank will be added in the Weight and Balance module within the Aircraft profile.



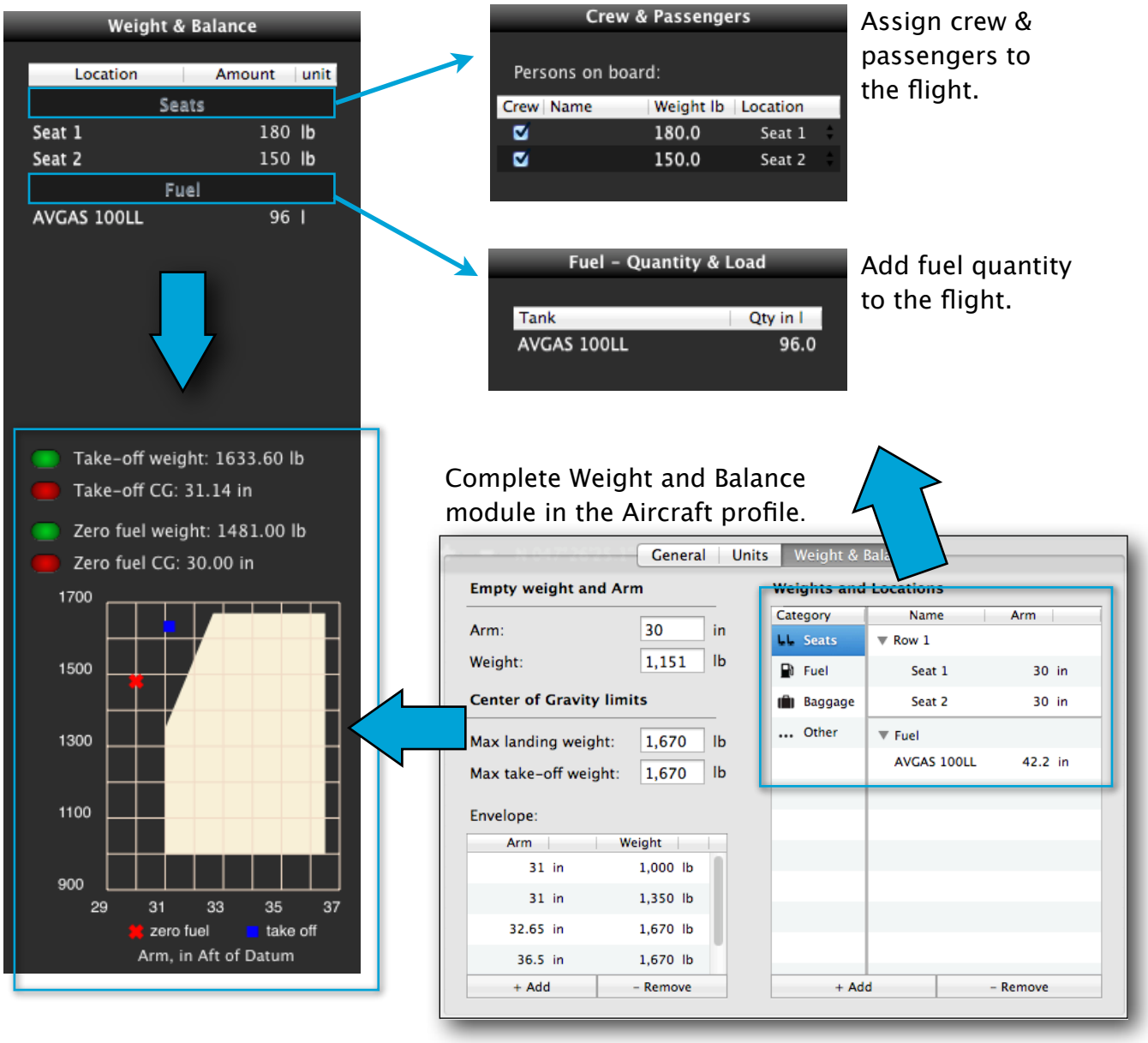
Weight and balance Graph

Air Nav Desktop will compute all the required values and drop the final results on the Envelope graph. This will show whether the Aircraft is balanced or not.

> ⚠ the results of the Weight and Balance Graph are not certified by any aviation authorities.

> ⚠ the Weight and Balance module must be completed with the **aircraft operative manual**.

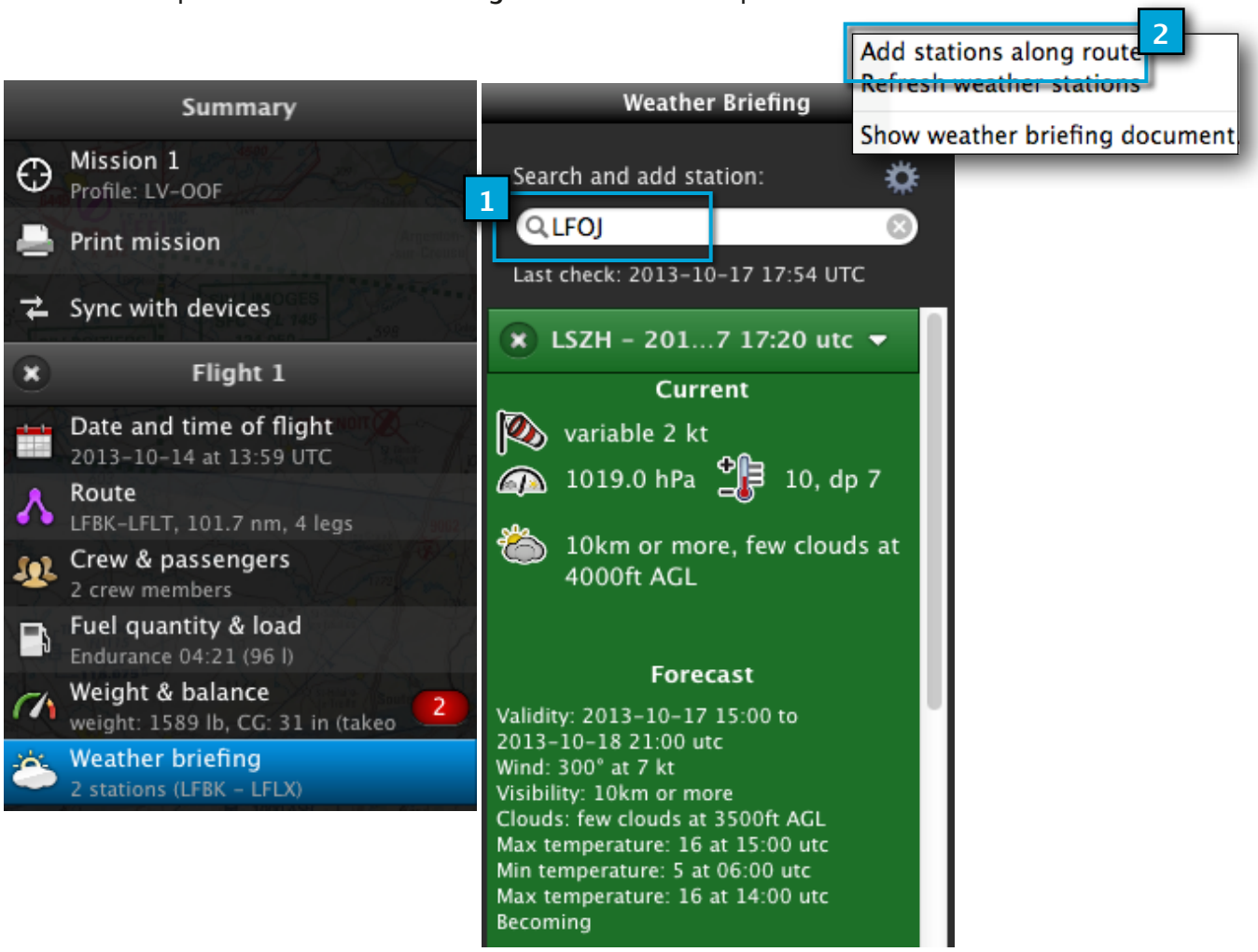
Here's a diagram to give an idea of what **values are involved** in the final results:



Weather briefing

Weather stations information is available in this module for major Airports with ICAO code. You can get weather info for single stations or for the whole created route, as follows:

1. Enter the IACO code of the Airport on the top
2. Select the option **«Add stations along route»** from the top menu



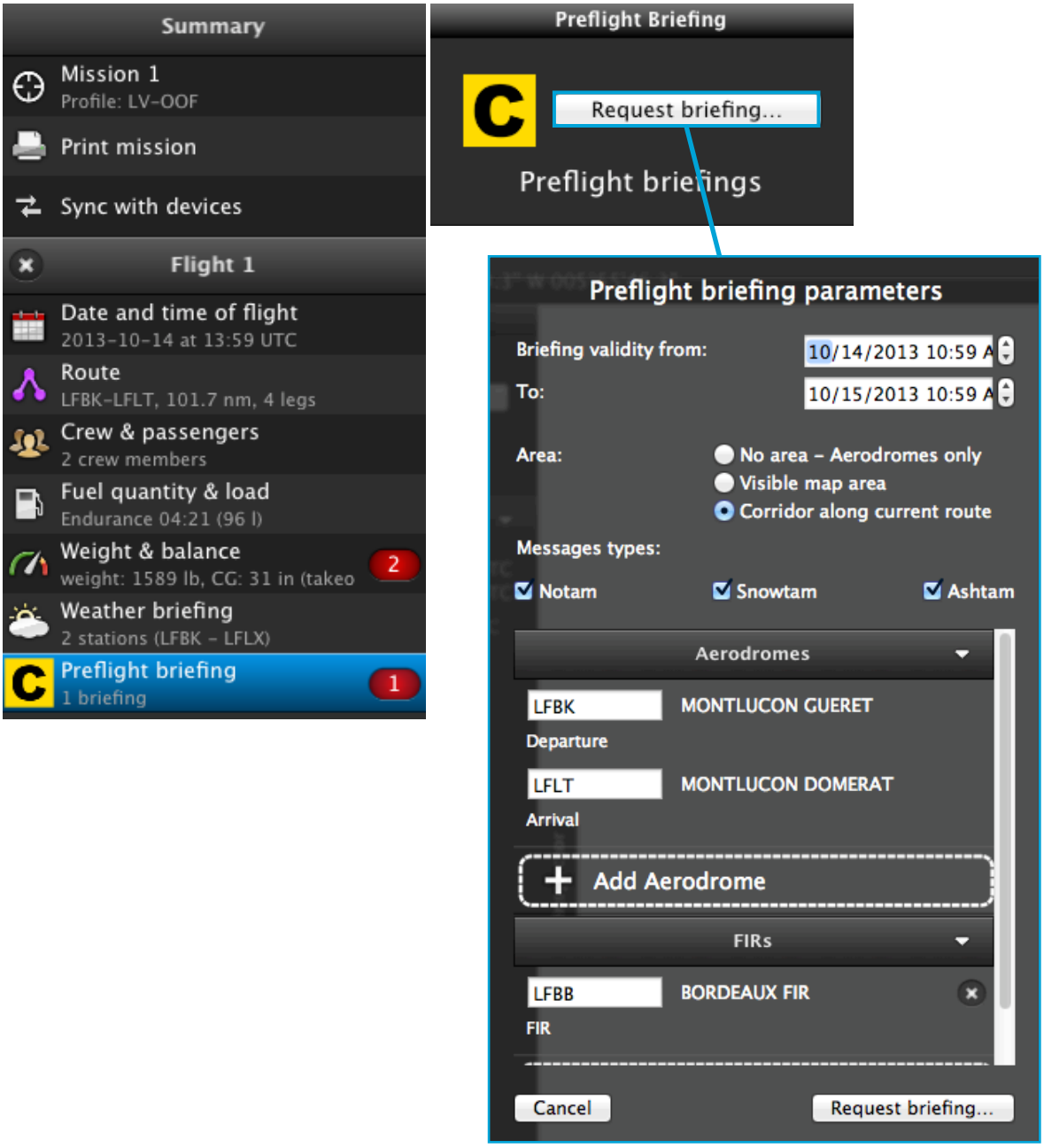
TIP: as an alternative, you can active the METARs on map from the **Map TAB** widgets and check the weather conditions directly in the moving map.

Preflight briefing

The preflight briefing provides with **NOTAM information** to the pilot, who can change the parameters in the module, to show more or limit that information. The parameters are described in the picture below.

> ⚠ NOTAM is a paid subscription and shall be purchased from your Xample Services account.

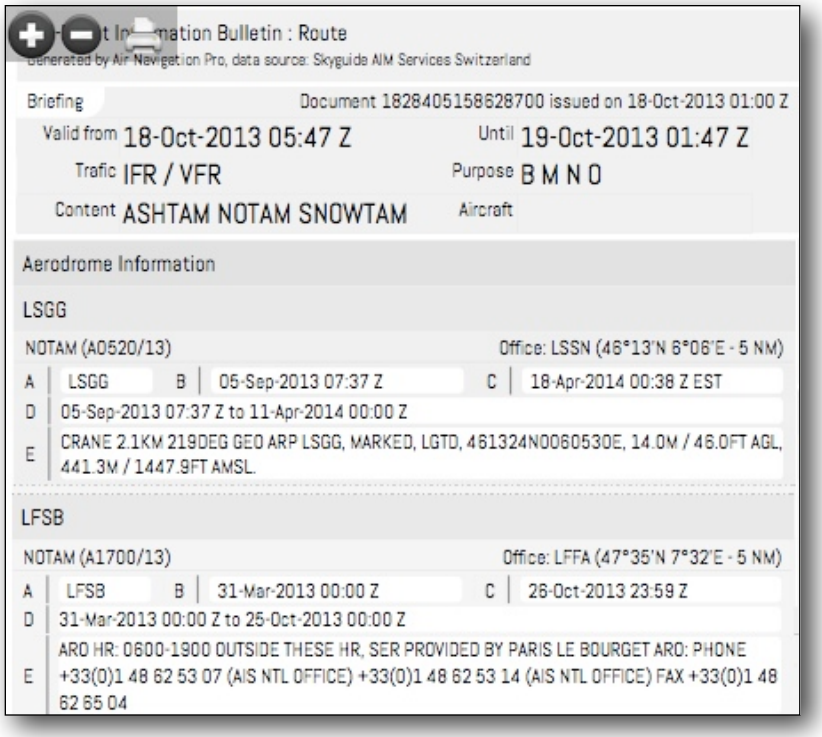
> ⚠ Check NOTAM service availability in your country.



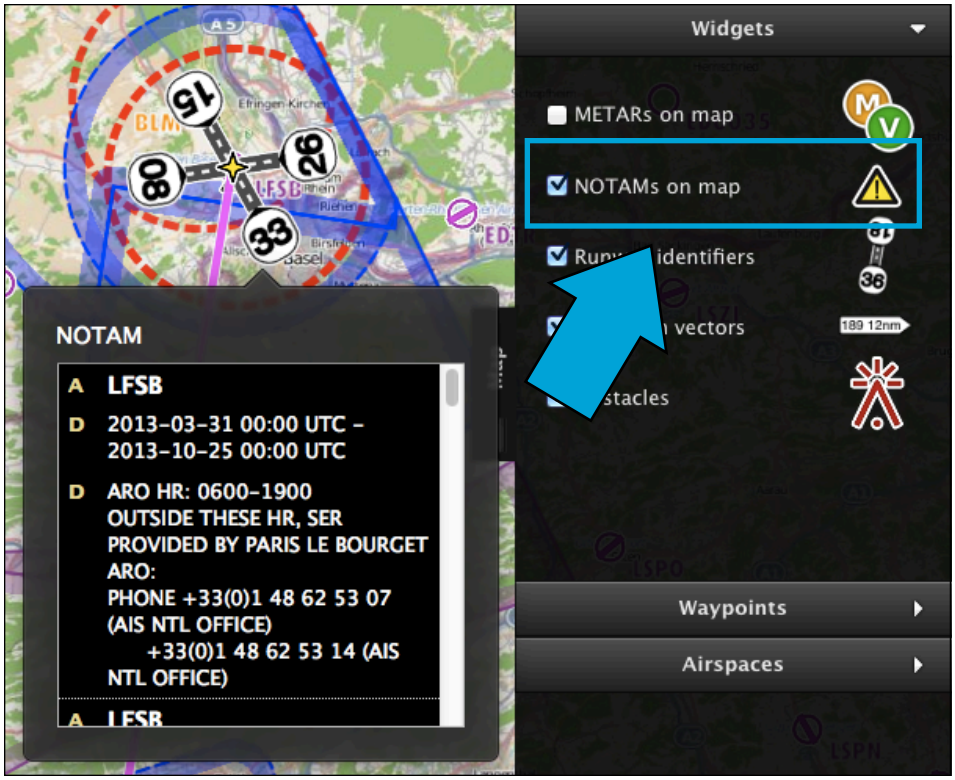
The NOTAM is presented in PDF format and can be immediately printed out.

The **Availability** of this service covers most of the world territory on NOTAM serie A, Europe on NOTAM series A and C, and France, Germany and Switzerland on smart NOTAM. Here's what each type means:

- NOTAM serie A:
  International Airports + FIR regions
- NOTAM serie C:
  National/Regional Airports
- Smart NOTAM:
  Decoded NOTAM (easy-to-read)


Information Bulletin : Route
Generated by Air Navigation Pro, data source: Skyguide AIM Services Switzerland
Briefing
Document 1828405158628700 issued on 18-Oct-2013 01:00 Z
Valid from 18-Oct-2013 05:47 Z
Until 19-Oct-2013 01:47 Z
Trafic IFR / VFR
Purpose B M N O
Content ASHTAM NOTAM SNOWTAM
Aircraft
Aerodrome Information
LSGG
NOTAM (A0520/13)
Office: LSSN (46°13'N 6°06'E - 5 NM)
A LSGG B 05-Sep-2013 07:37 Z C 18-Apr-2014 00:38 Z EST
D 05-Sep-2013 07:37 Z to 11-Apr-2014 00:00 Z
E CRANE 2.1KM 219DEG GEO ARP LSGG, MARKED, LGTD, 461324N0060530E, 14.0M / 46.0FT AGL, 441.3M / 1447.9FT AMSL.
LFSB
NOTAM (A1700/13)
Office: LFFA (47°35'N 7°32'E - 5 NM)
A LFSB B 31-Mar-2013 00:00 Z C 26-Oct-2013 23:59 Z
D 31-Mar-2013 00:00 Z to 25-Oct-2013 00:00 Z
E ARO HR: 0600-1900 OUTSIDE THESE HR, SER PROVIDED BY PARIS LE BOURGET ARO: PHONE +33(0)1 48 62 53 07 (AIS NTL OFFICE) +33(0)1 48 62 53 14 (AIS NTL OFFICE) FAX +33(0)1 48 62 65 04

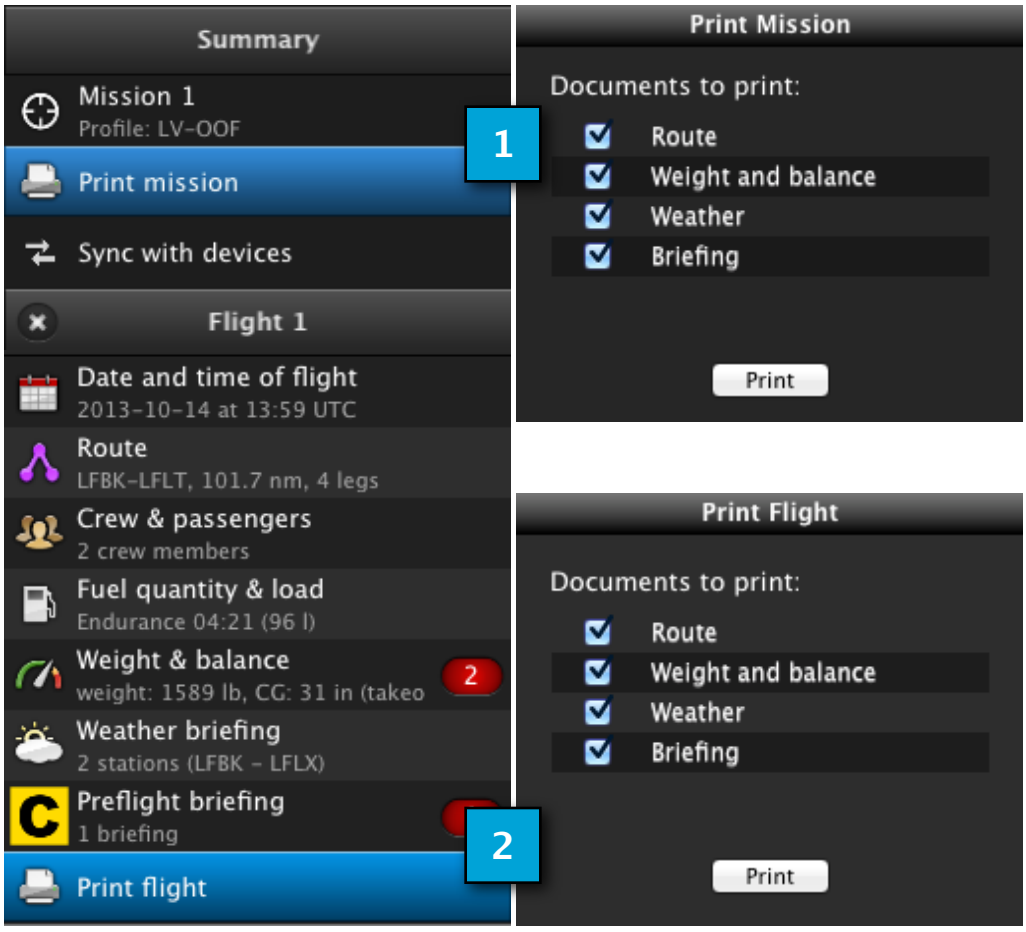
NOTAM can be also activated on the map through the Map TAB widgets. On the image beside, the NOTAM is depicted as **red dotted circles**. You can get the NOTAM info by clicking within the circles (see screenshot below).


Widgets
METARs on map
NOTAMs on map
Waypoints
Airspaces
NOTAM
A LFSB
D 2013-03-31 00:00 UTC - 2013-10-25 00:00 UTC
D ARO HR: 0600-1900 OUTSIDE THESE HR, SER PROVIDED BY PARIS LE BOURGET ARO: PHONE +33(0)1 48 62 53 07 (AIS NTL OFFICE) +33(0)1 48 62 53 14 (AIS NTL OFFICE)
A LFSB

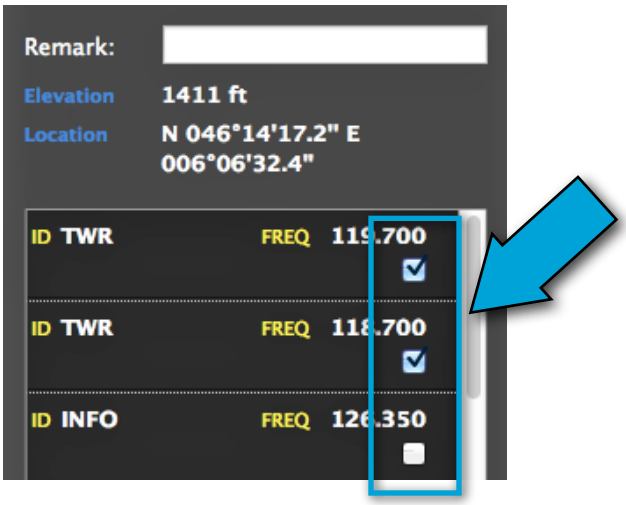
Print options

When the flight plan is ready, it can be printed out so that you take it on board. There are two alternatives for print options:

1. Print Mission: you can print more than one flight at the same time
2. Print flight: prints a single flight



TIP: when the route is selected to be printed out, all the contact frequencies of each Airport waypoint will be included by default. You can **choose the frequencies** you want to print out and the ones you don't, by selecting or unselecting them in the waypoint information window.



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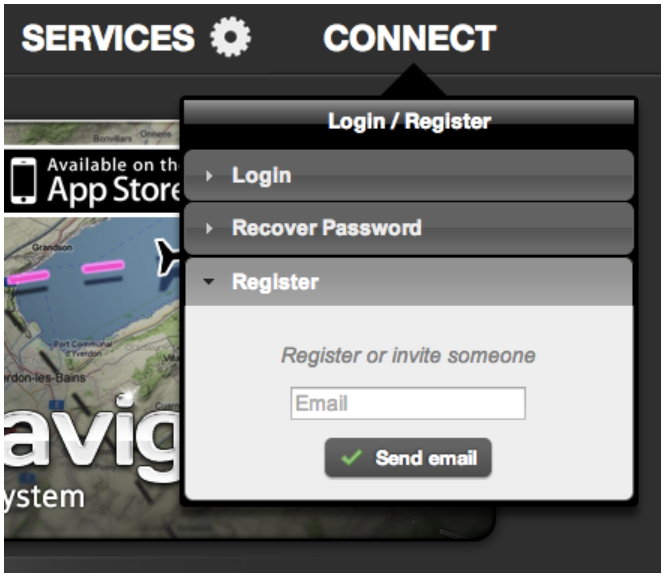
Support

Xample Services User Account

You can create a **Free account** on http://services.xample.ch



⚠ to complete the registration, you should check in your Email box.

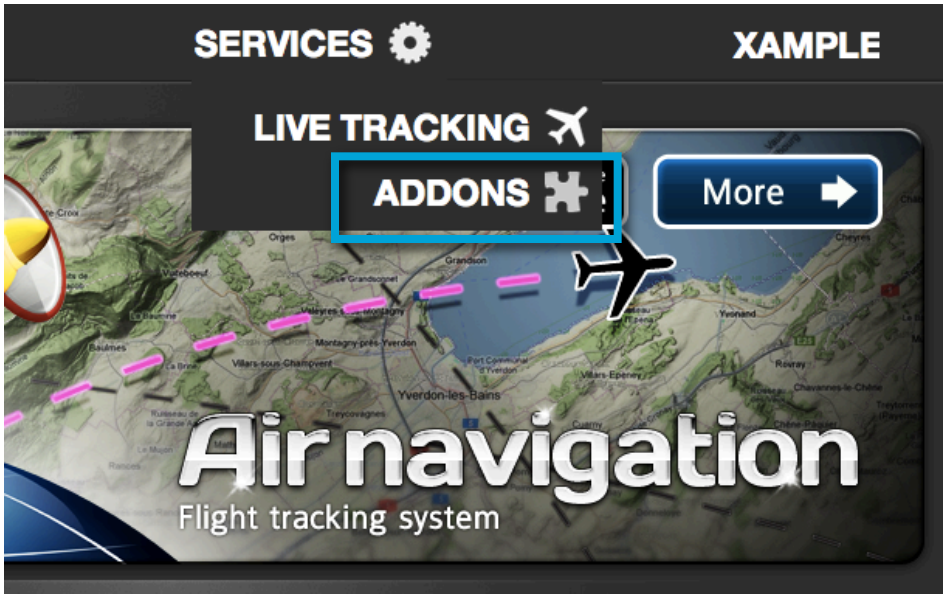
The advantages of having an account on Xample Services are:

- Access to paid annual subscriptions **(Add-ons)**
  Approach charts
  NOTAM
  Obstacles map (Switzerland only)
  Airport guides
  US Sectional charts
  Free database packages (waypoints and airspaces)
- Access to Live tracking service (Air Nav Pro for iOS/Android users)
- Access to route storage (Air Nav Pro for iOS users)
- Sync options to use the maps/products on different devices and Air Nav versions without having to purchase them twice

On the following pages, we will explain how to purchase subscriptions and sync the maps and products with other devices.

Purchase subscriptions

Purchases are made through the ADDONS page on http://services.xample.ch



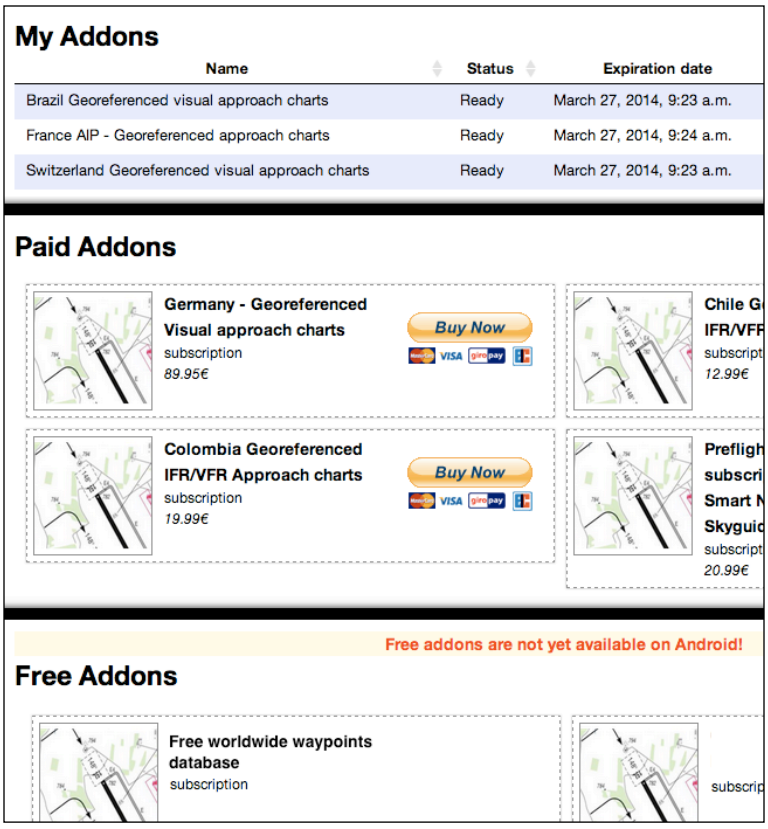
⚠ in order to have access to the ADDONS page, you must first own a Xample Services account.

The ADDONS page has 3 lists:

- **My Addons**
  It shows all your purchases.

- **Paid Addons**
  It shows Subscriptions to buy:
  Approach Charts
  Preflight briefing (NOTAM)
  Obstacles database
  Airport guides
  US sectional charts

- **Free Addons**
  It will give you the possibility to subscribe for free to the database updates for both waypoints and airspaces.



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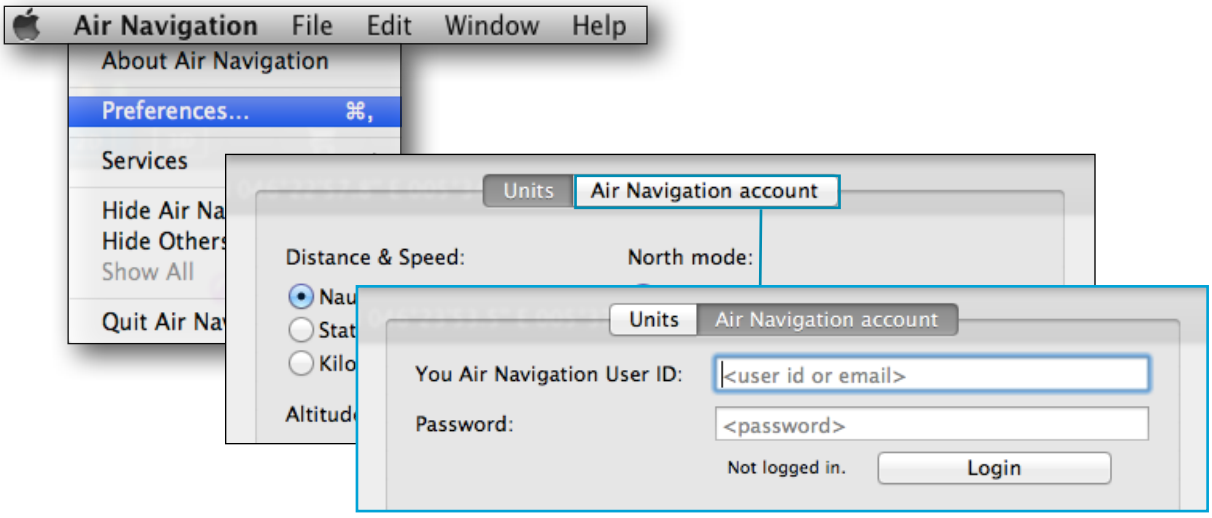
Synchronize/Install purchased maps/products

If you already have a version of Air Nav (whether it is iOS or Android) and you purchased maps and other products, you should then follow the procedure described in this section if you want to install them on Air Navigation Desktop.

⚠ before installing any maps/products, you must first **login** with your Xample Services account.

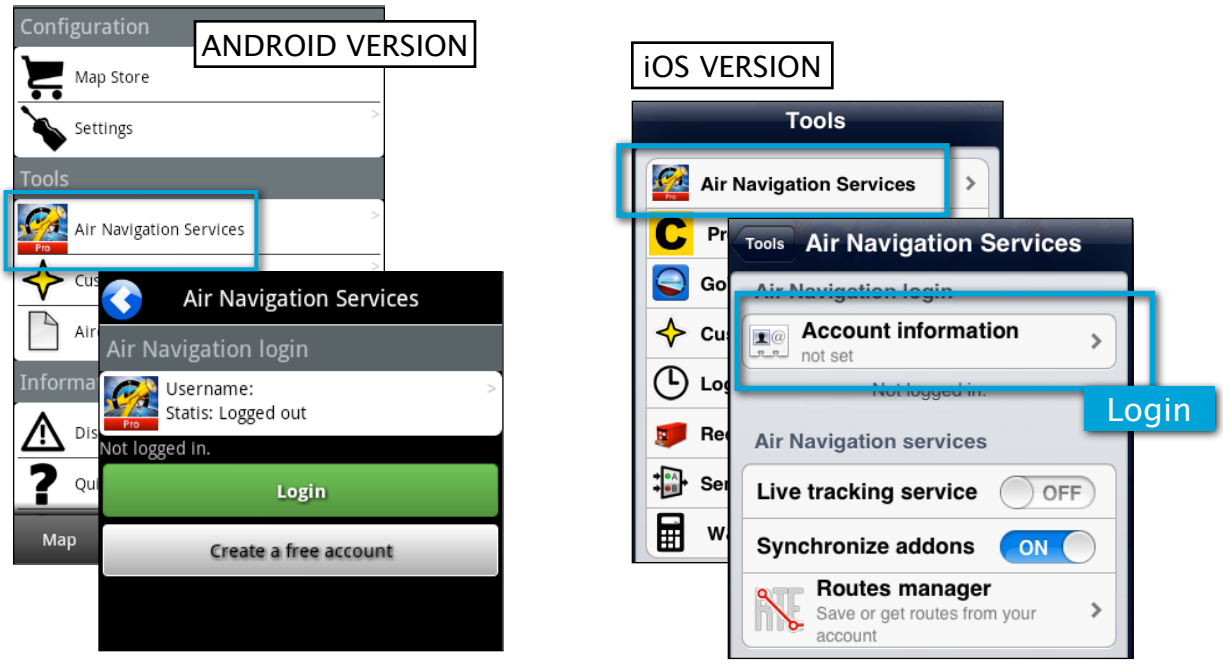


Install subscriptions

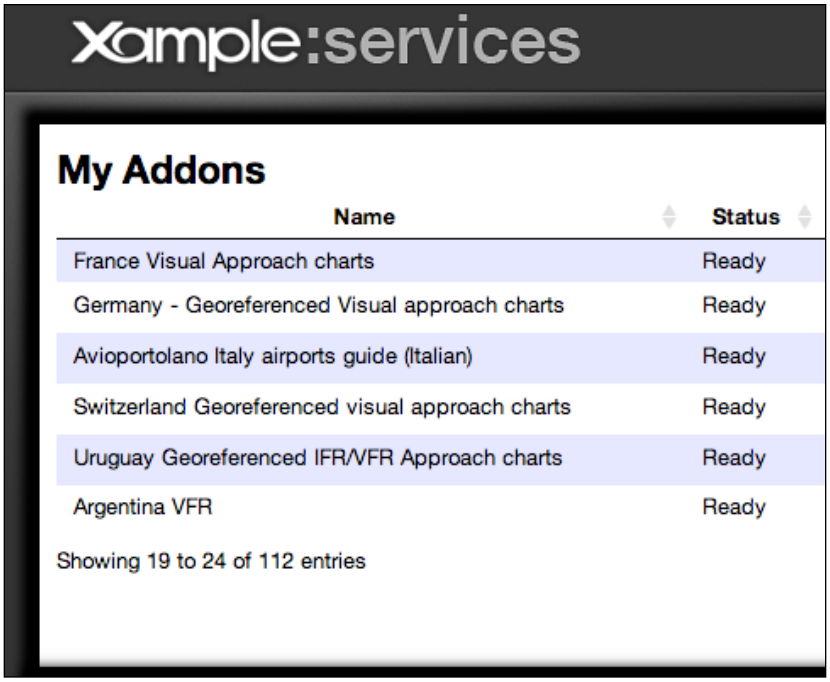
- Login with your Xample Services account on Air Nav Desktop
- Open the Map Store and go to the section **«All my products»**
- Wait for the purchases to show (it might take some minutes)

Install maps/products purchased on Air Nav Pro iOS/Android

- Sync the purchases first on your iOS/Android device
  Login with your Xample Services account under **«Air Navigation Services»** menu



- Get in http://services.xample.ch and go to your ADDONS page
- Check that your purchases show under **My Addons** list



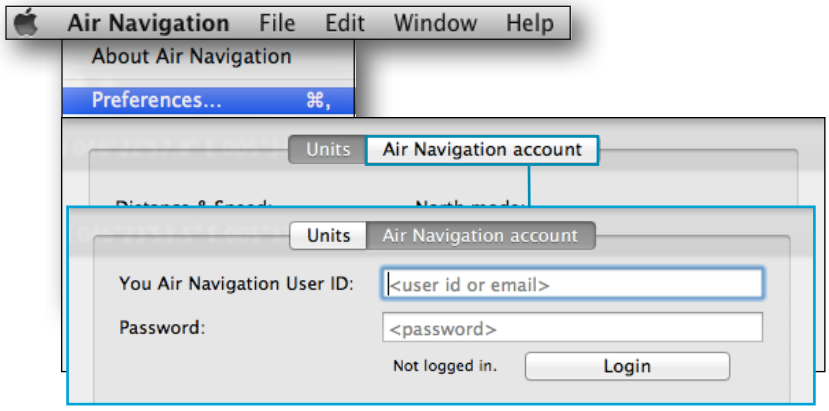
- Proceed as described on previous page under “**Install subscriptions**”

Synchronize routes with your iOS device

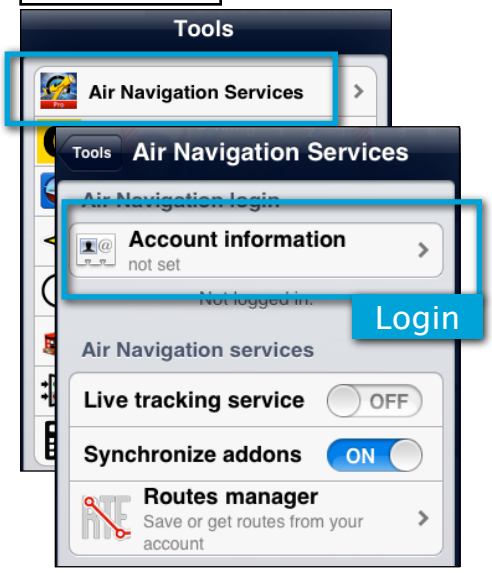
The routes created in Air Nav Desktop can be easily **copied to your iPad or iPhone** following the steps below:

➡ Login with your Xample Services account on Air Nav Desktop **and also** on your iOS device

DESKTOP VERSION

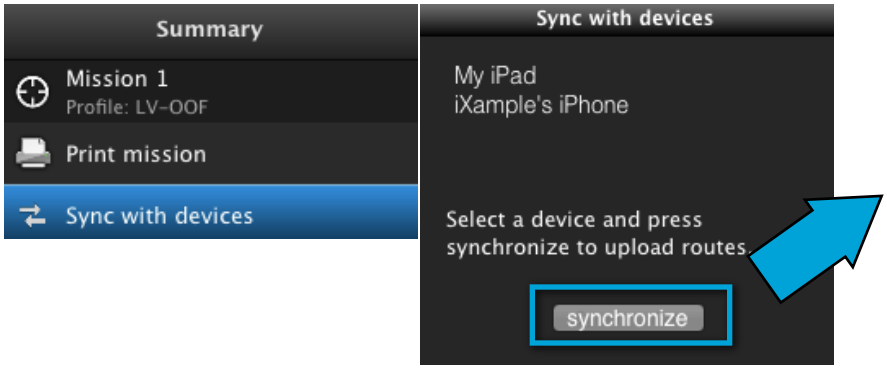


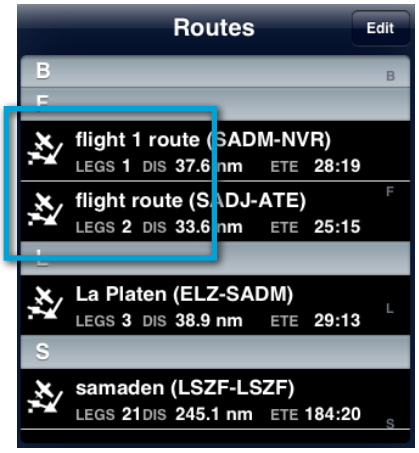
iOS VERSION



⚠ both the Mac computer and the iOS device must be connected to the **same wifi network**.

➡ From the Mission TAB, go to «**Sync with devices**»
➡ Select the device and click on «Synchronize» button




Routes
Edit
flight 1 route (SADM-NVR)
LEGS 1 DIS 37.6 nm ETE 28:19
flight route (SADJ-ATE)
LEGS 2 DIS 33.6 nm ETE 25:15
La Platen (ELZ-SADM)
LEGS 3 DIS 38.9 nm ETE 29:13
samaden (LSZF-LSZF)
LEGS 21 DIS 245.1 nm ETE 184:20

All the routes in the mission will be synchronized with the iOS device
Example: if you have a mission with 3 different flights, all 3 flights will be transferred to your iPad/iPhone.

⚠ routes stored in the Library TAB will NOT be transferred.

Help + Tips

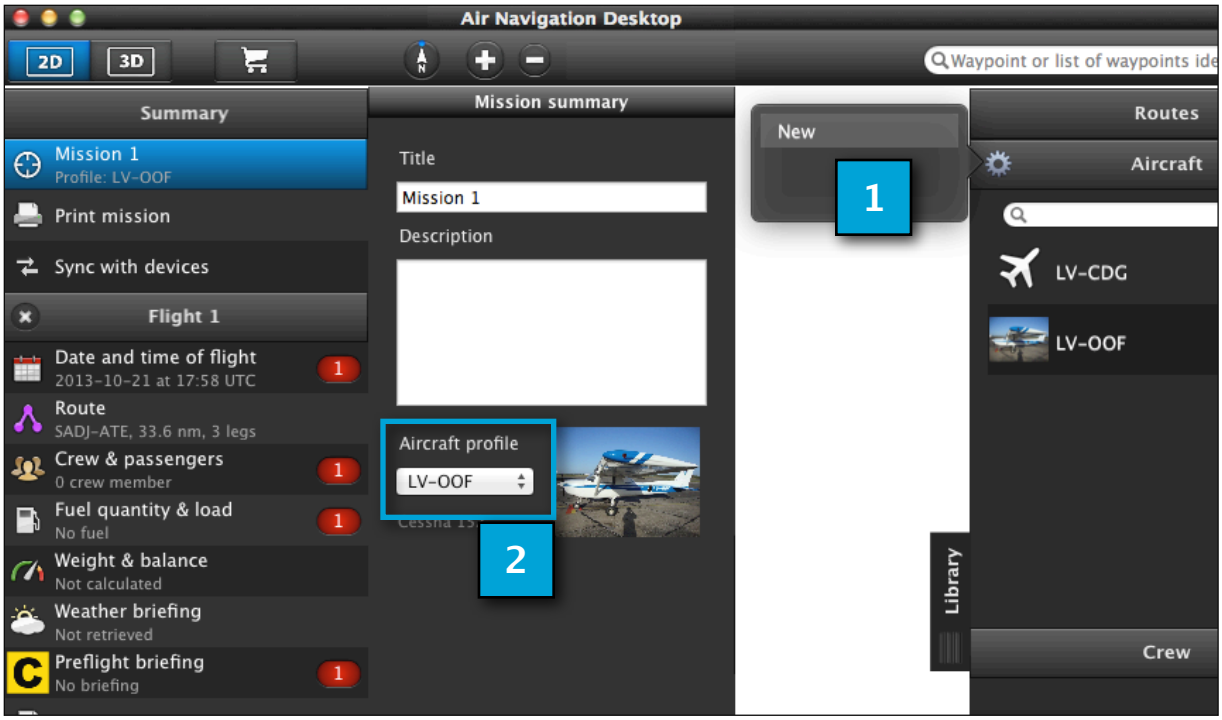
For each section in this user manual you will find **two types of text boxes**.

⚠	This box is a warning box and it will give you relevant information you should know about a tool, feature or procedure
TIP	This box is a help box and it will give you additional information that might be useful for you when using a tool or feature

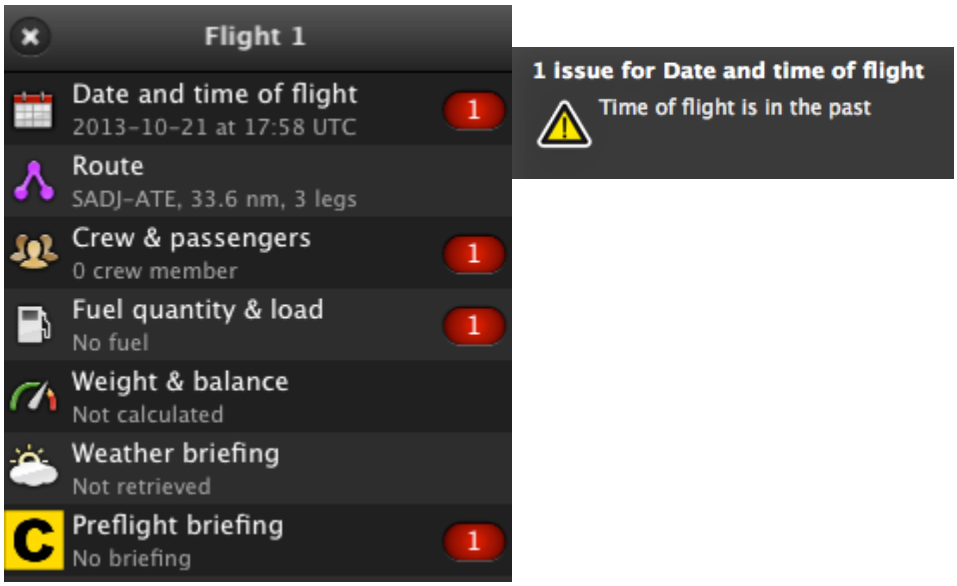
These boxes are extremely helpful to quicker understand the use of Air Nav Desktop features and tools, and also to find out how to make the most out of them.

We will describe below some cool tips to be taken into account for when flight planning.

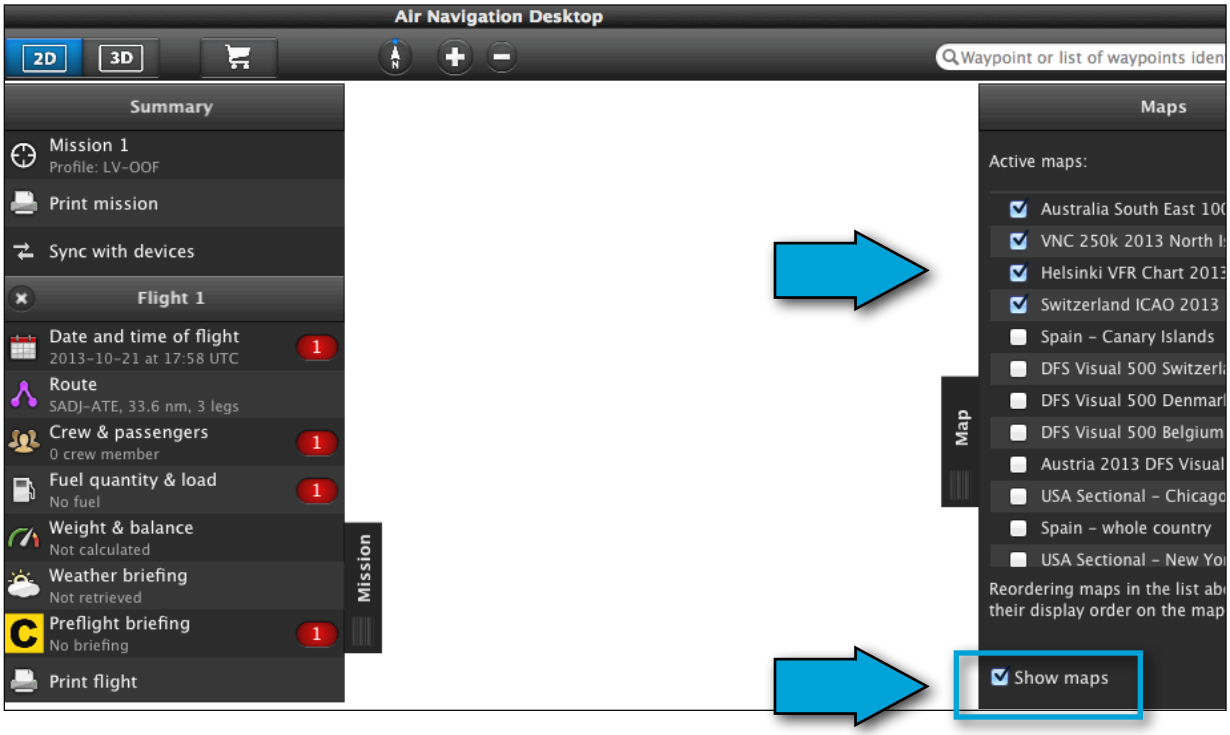
- **TIP 1**
  Before creating a route, we always recommend to:
  1. create an Aircraft profile
  2. assign it to the current Mission.



- **TIP 2**
  Always check the red bubbles for each module of a Flight. They will give you information about the problem.



- **TIP 3**
  Check that your downloaded map is enabled under the Map TAB.



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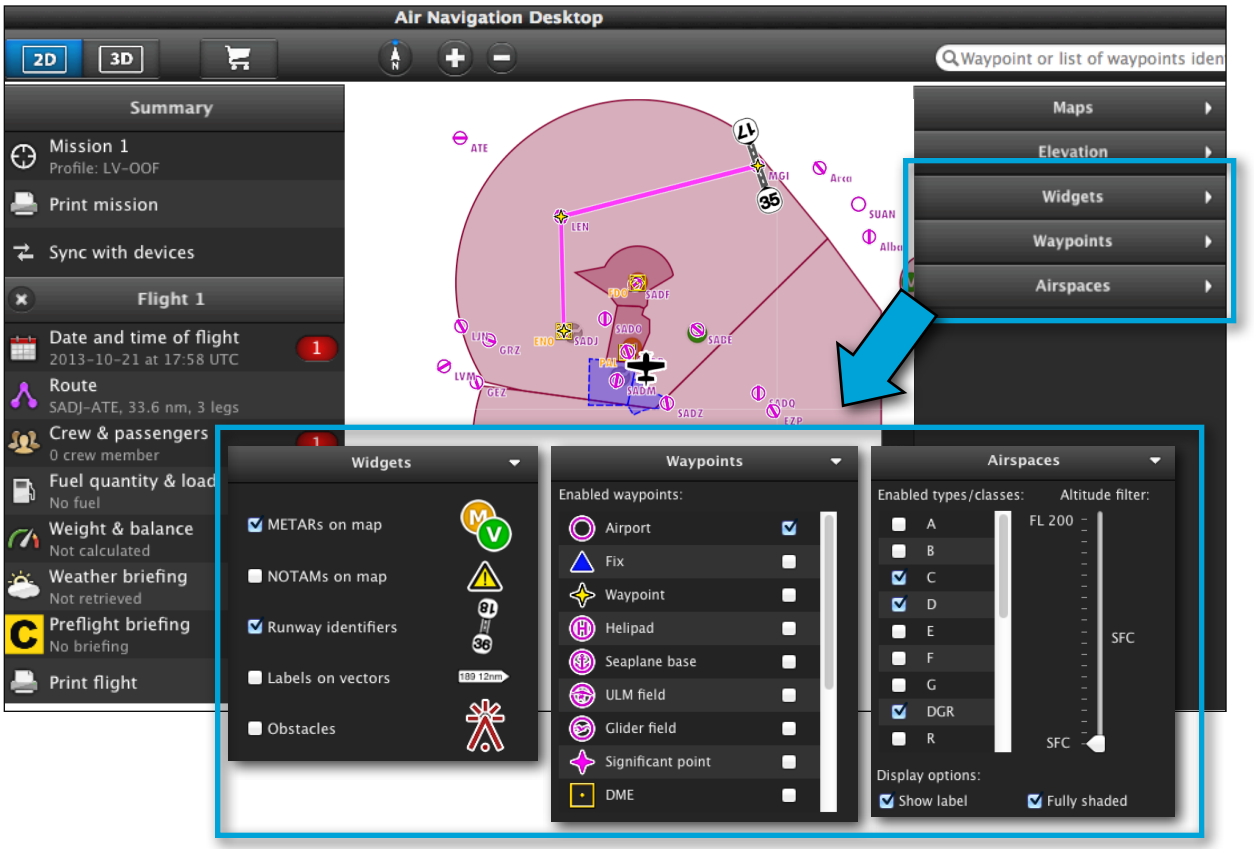
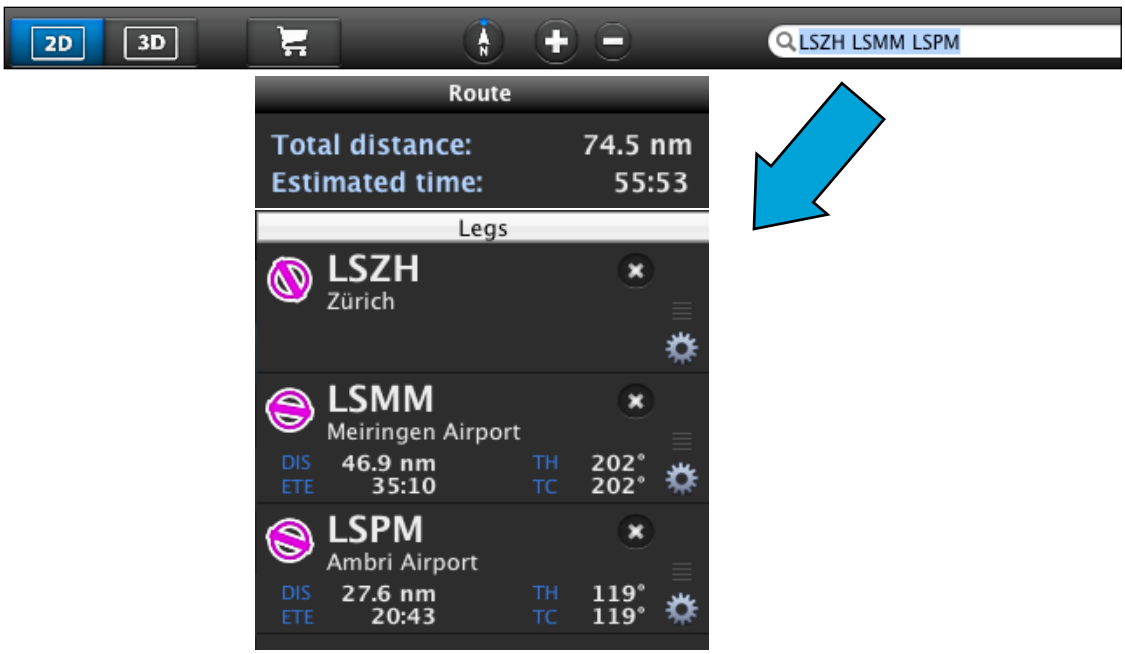
- **TIP 4**
  The Map options to show or hide waypoints, airspaces and other widgets such as NOTAM, METAR and obstacles are managed from the Map TAB.



- **TIP 5**
  You can enter the ID of the waypoints you wish to add to the route in the search field.



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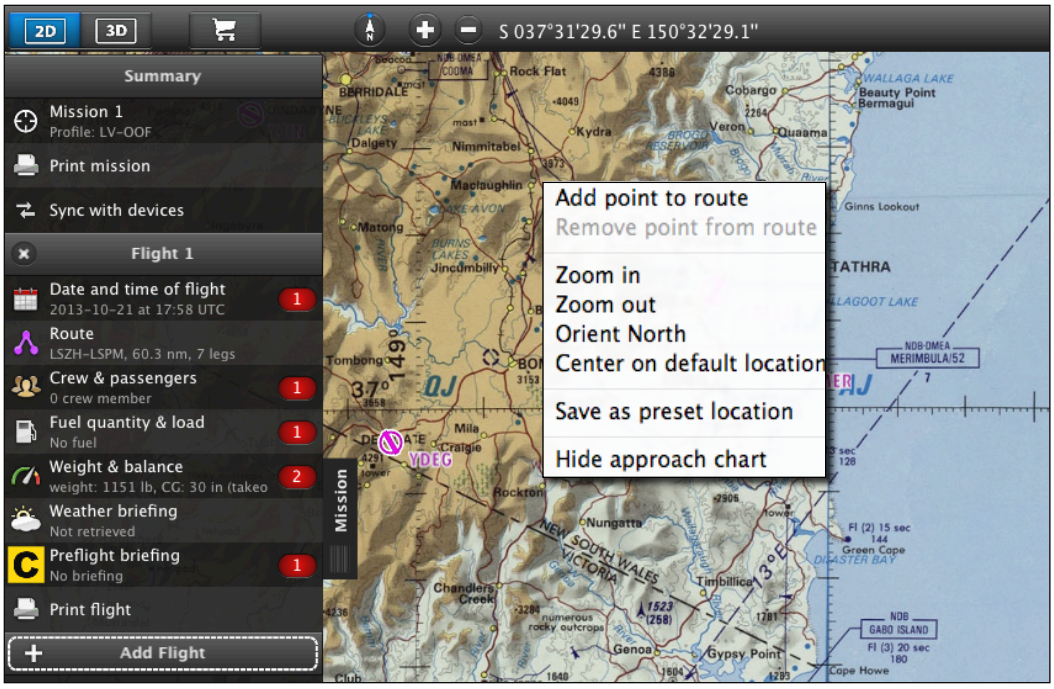
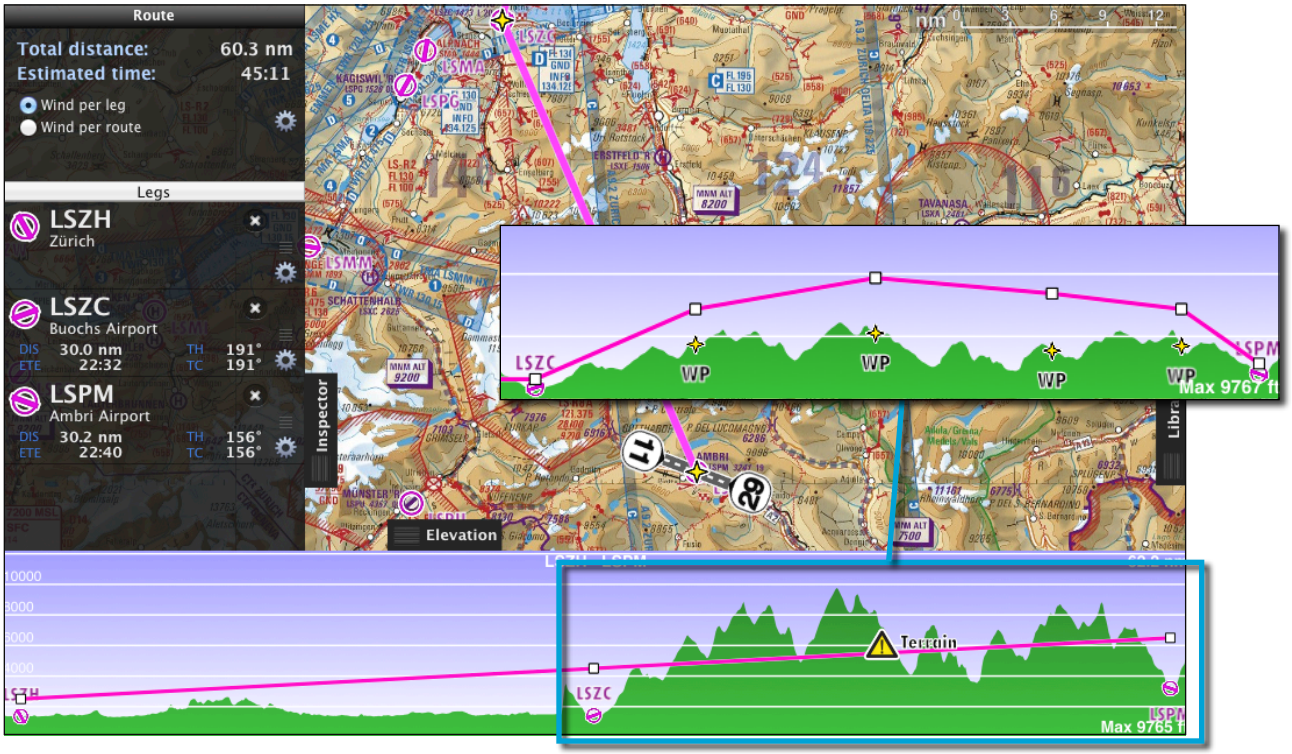
- **TIP 6**
  You can right-click on the moving map to reach various options.



- **TIP 7**
  When terrain is an obstacle for our route, we can add mid waypoints in the Elevation graph making a click on the problematic area directly in the graph.



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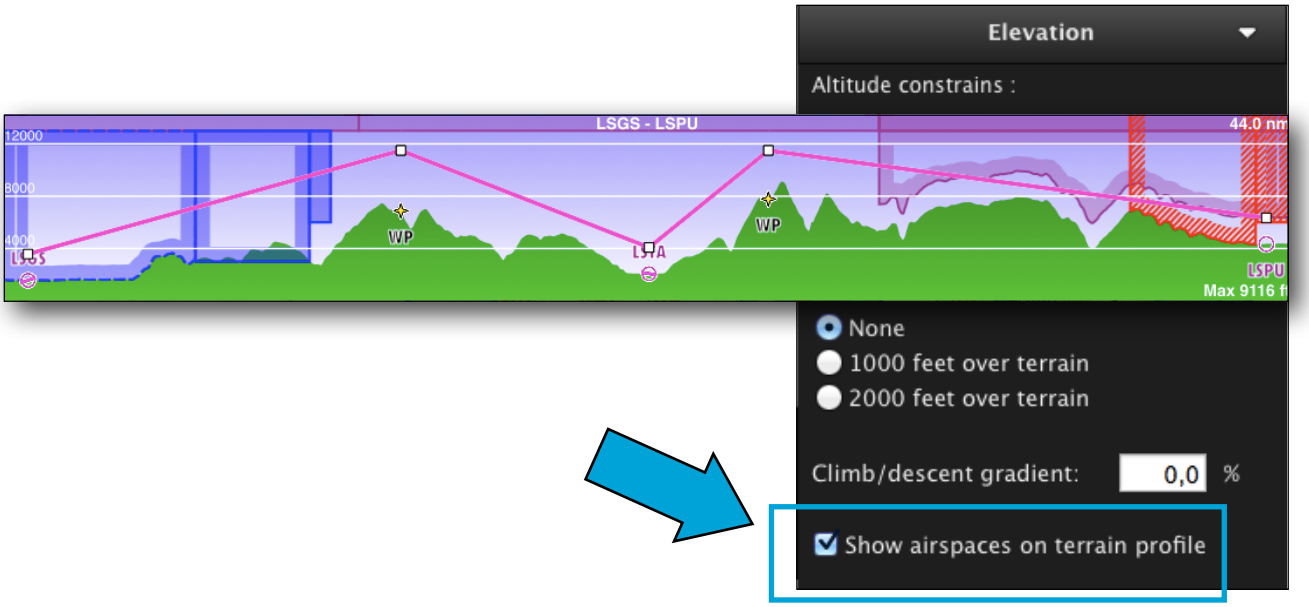
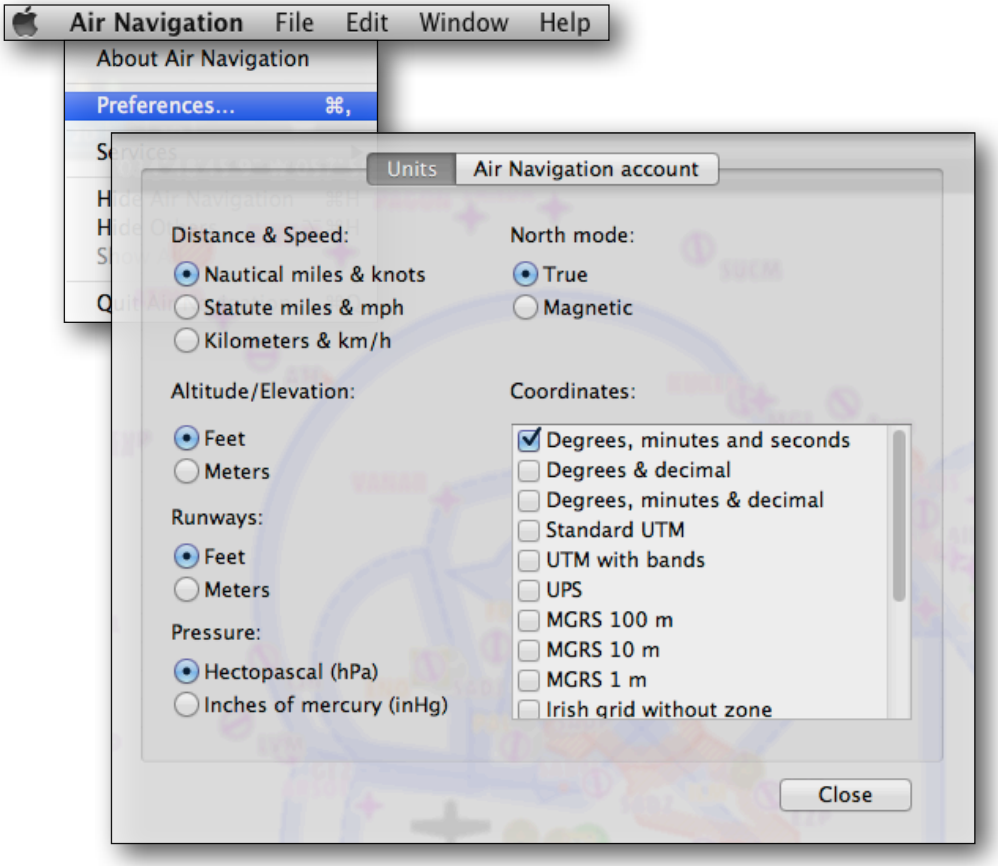
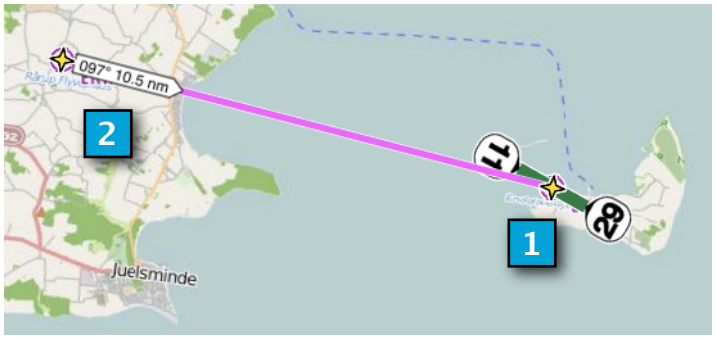
- **TIP 8**
  You can show or hide airspaces in the Elevation Graph from the Map TAB.



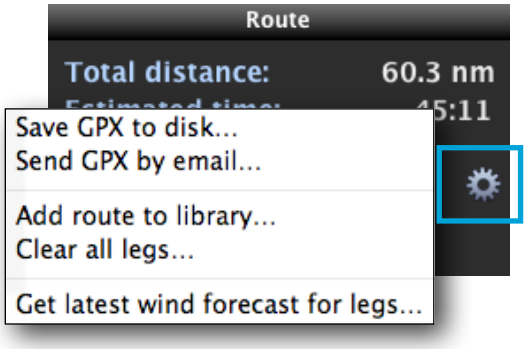
- **TIP 9**
  Units can be configured from the **«Preferences»** module under under **«File»** top menu.

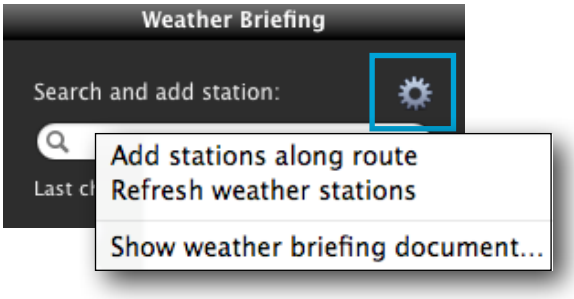


- **TIP 10**
  You can enable useful widgets from the Map TAB.

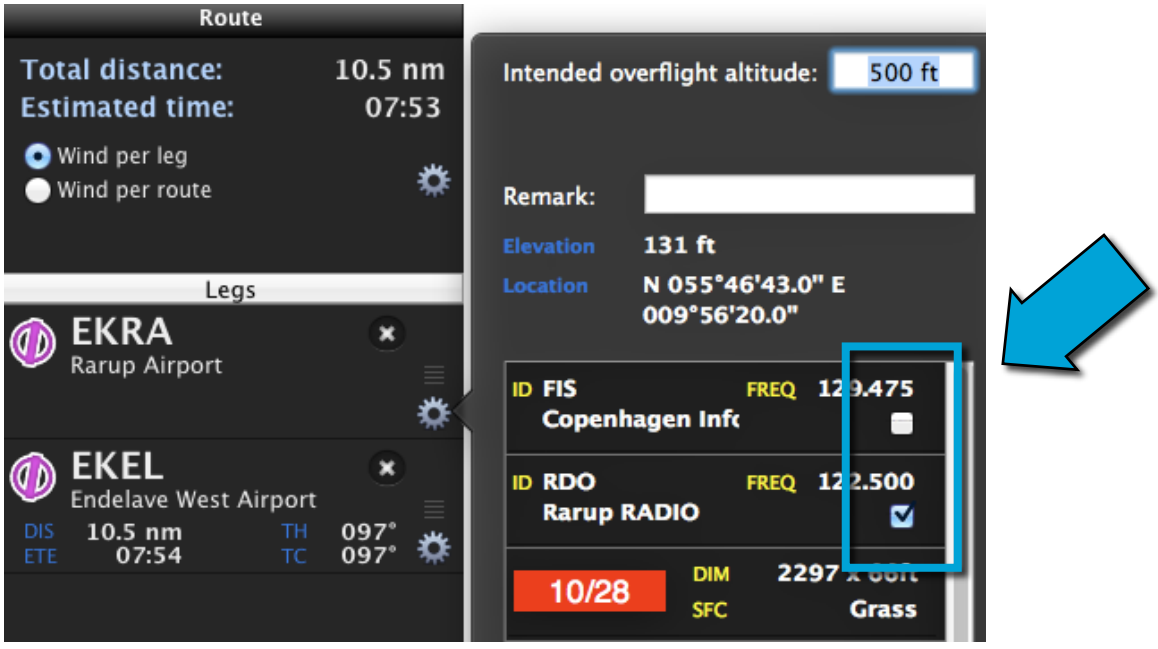


- **TIP 11**
  The wheel symbol at top of the menus have useful options to check out.





- **TIP 12**
  If you do not want to show all the contact frequencies when you print your flight out, you can uncheck them from the waypoint info window.



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Contact us

If you need assistance or have doubts about any of the tools, features of app functionality, you can send us a support request through our support platform:

http://xample.desk.com/

We usually answer support requests within a few business days.